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Chicago

New York ~ Detroit

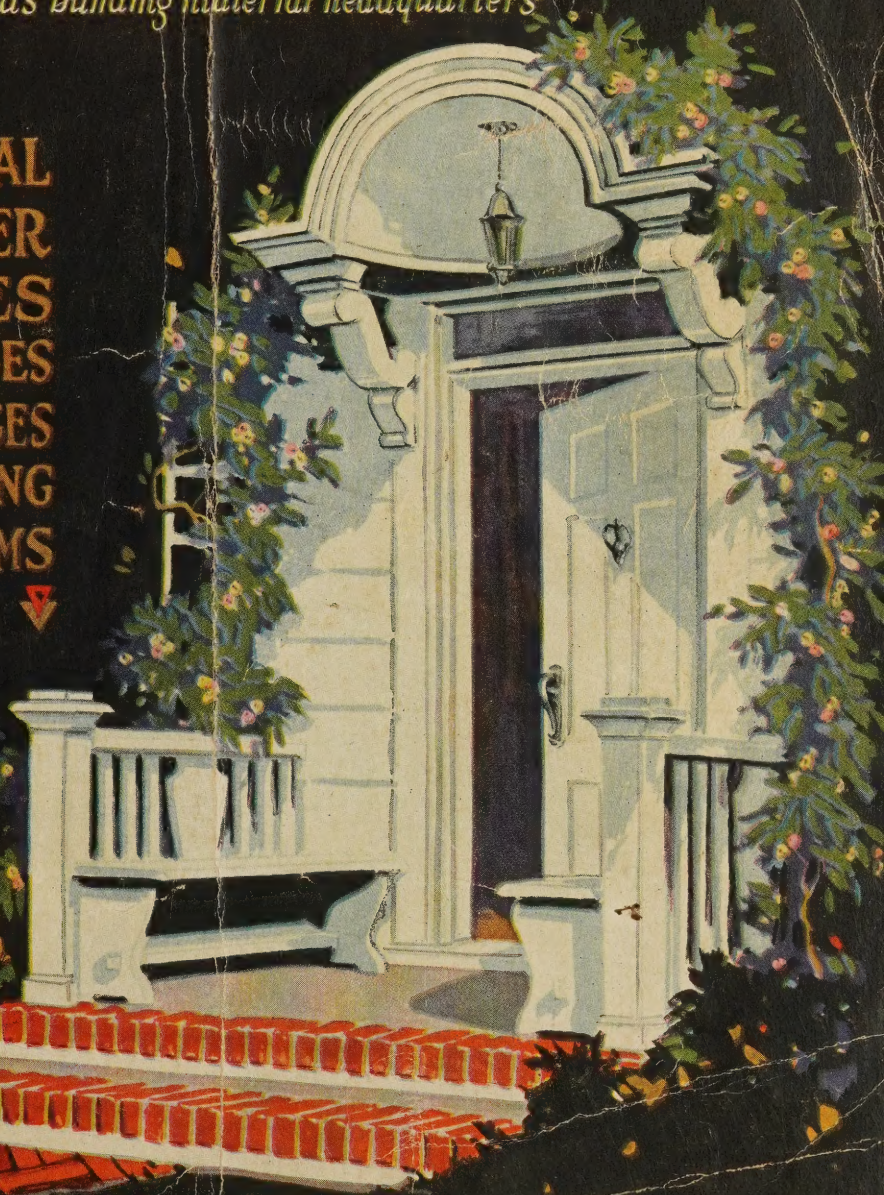


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*we have been nationally recognized as
America's building material headquarters*

BUILDING MATERIAL
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HARRIS HOMES
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*This Book is the
KEY DOOR to Big
Economy for those
who Intend to Build-
Improve-Repair!*



Address all Communication to
HARRIS BROTHERS Co.
35th and Iron Sts. Chicago

Millwork Suggestions for the Home!

There are innumerable ways that you can add beauty and comfort to your home, increasing the value of your property with little expense. These colored photographic reproductions suggest a few of the many possibilities more fully described in the millwork pages of this book.

Shakespeare Front Door

First impressions are many times best. If there is any single thing about a house that makes a good first impression, that one thing is the front door. Our "Shakespeare" door in red oak, Northern birch or White Pine, showing the natural grain of the wood, with its artistic glazing is an embodiment of good taste.

There are many other handsome designs in the door pages of this book.

Writing Desk and Bookcase Colonnade

Here is a built-in convenience that will not only beautify the interior of your home with its impressive appearance, but add ever-convenient cases for your books, china or antiques and serve you with a spacious writing desk as well.

But one of the many splendid designs presented in the colonnade pages which follow.

Medicine Cabinet

No bathroom is complete without a built-in medicine cabinet. But you should be careful in your choice to select a cabinet of trim, neat appearance properly arranged for storage and sanitation. See the splendid designs in the cabinet pages of this book.

Astoria Buffet

The addition of a modern attractive built-in buffet is nearly as simple as setting any piece of furniture in place. The design and construction of this artistic buffet with its spacious cupboards, convenient drawers, mirrored top and leaded crystal glazed doors will delight you with the finished appearance it will give your dining room. Other designs will be found in the buffet pages of this book.

An Inviting Breakfast Alcove

Like all other articles of built-in furniture, the breakfast alcove combines usefulness, beauty, and convenience. It is attractive and inviting—a time and step saver for the housewife. Even the smallest home can be greatly improved by allowing sufficient space for this little nook. Full details of this outfit in many sizes will be found in the cabinet pages of this book.

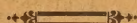
A Complete Expert Service —

*for those
who intend
to build or
improve..*

AN INVITATION

from the President of

HARRIS BROTHERS CO.

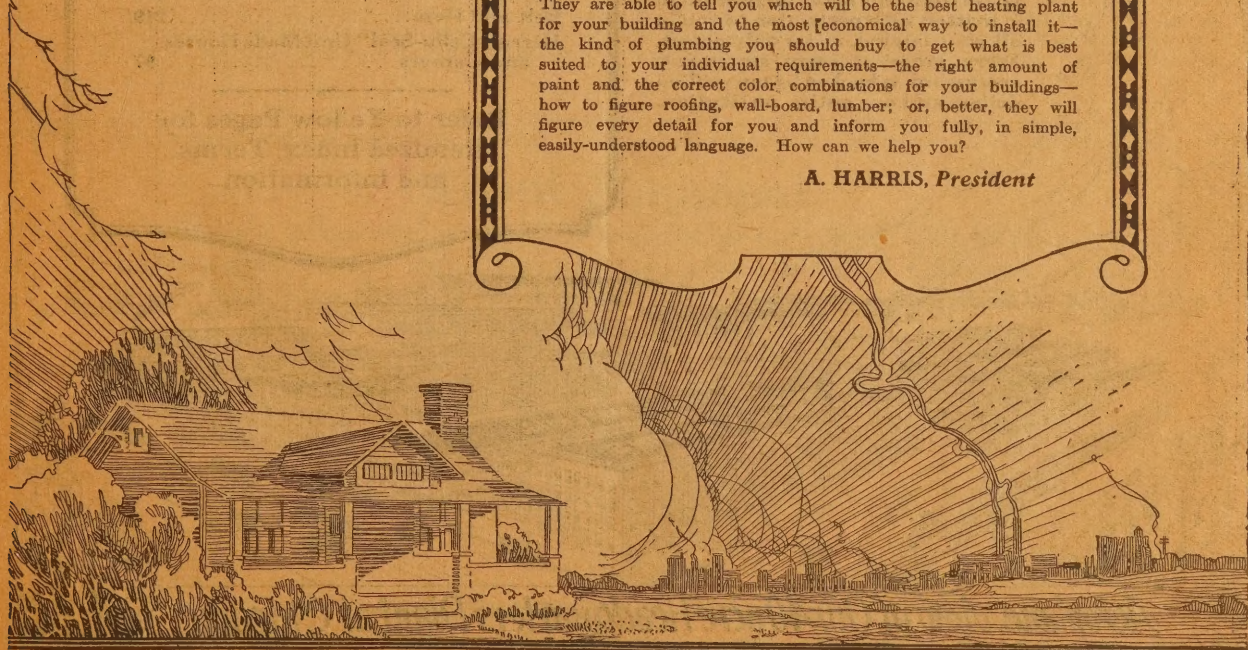


¶ Thirty-three years ago we started this business with the full realization that our success or failure depended solely upon our ability to serve. The result is our \$10,000,000 institution and satisfied customers in every section of the country.

¶ Through all these years our expert engineers and estimators have collected a priceless store of information which could only come to us by direct dealing with countless thousands like you. With this valuable and varied knowledge, we solicit your patronage, prepared to give you better qualities, lower prices and a helpful time and trouble saving service.

¶ We invite your letters of inquiry. Experts are waiting here to help you—to point out the “short cuts” to satisfaction—the direct, sure and certain route to true economy. They will show you the best way to build your home, the proper way to decorate and furnish it. They are able to tell you which will be the best heating plant for your building and the most economical way to install it—the kind of plumbing you should buy to get what is best suited to your individual requirements—the right amount of paint and the correct color combinations for your buildings—how to figure roofing, wall-board, lumber; or, better, they will figure every detail for you and inform you fully, in simple, easily-understood language. How can we help you?

A. HARRIS, President



HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Let THIS Protect You in all Your Buying

Capital
\$10,000,000
Stock

Our Guarantee

We Guarantee that every article of merchandise in this book is exactly as illustrated and represented, that every article you receive will meet your highest expectations in value, service and satisfaction.

We Guarantee to satisfy you in all your dealings. If you are not entirely pleased we will permit the return of any material or merchandise purchased from us at our expense. We will then return your money with any transportation charges you have paid, or we will exchange the returned goods or satisfy you otherwise.

**HARRIS BROTHERS
COMPANY** 35th and Iron Streets
CHICAGO

Established
1892

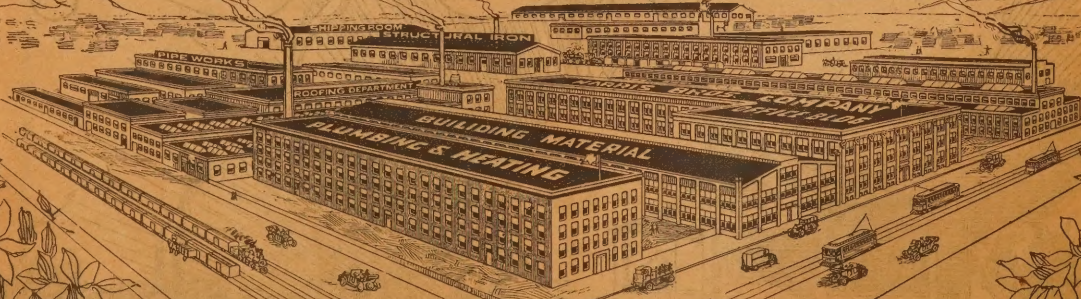
This guarantee covers every purchase from this book, large or small—written with protection to you in all your buying, as its only object. Every promise, every statement, every word, is backed by ten million dollars and our entire institution.

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Included in this book are representative pages from our Plan Book of Harris Homes and our catalogs of "Cellu-Seal" Garages, Lakeside Cottages and "Cellu-Seal" Permanent Homes. Do not hesitate to write for further information. The brief index below will serve as a quick ready reference to the various divisions of material.

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Refer to Yellow Pages for
Itemized Index, Terms
and Information



Aeroplane view of Our 40 acre Headquarters Plant at Chicago

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

40 Acres of Bargains —and the Reason!!

FOR more than thirty years, we have been nationally recognized as America's Building Material Headquarters. And we are justly proud of the title for we have worked hard to gain and retain our leadership. Through all these years the dependable quality of our products and honest business methods have won for us the respect, patronage and support of careful, thrifty buyers in every section of the country. But more important we point with pride to our "smashing" low prices which have been as they are today, the lowest quoted on high grade building materials and supplies.

Selections—Savings—Service—Satisfaction!

Our great factories and warehouses here at our centrally located headquarters plant at Chicago under our direct supervision gives us an overwhelming advantage in maintaining our high standard of quality, in improving our service, in introducing new ways and means to cut manufacturing expense which reduces our prices to you. With few exceptions, every article in this book is in stock at Chicago for quick shipment.

This book brings you the "cream" of America's products. Dependable materials from most reliable sources of supply. It places before you wide selections in every needed item to build and improve your property and equipment. Every page emphatically asserts our price smashing supremacy. Every article proves beyond all question of doubt our leadership in value giving.

Our Terms:

Unless otherwise stated our terms are uniformly cash with order. That means we always require cash in part or in full, depending upon price quotations in this book or our special letter quotations. Shipment will be made C. O. D., provided a deposit of 25% accompanies your order, balance to be paid C. O. D., except if you live at a point where there is no freight agent.

References:

We refer you to any commercial agency—any bank or banker—any express company—or publisher of any paper concerning our responsibility. We have established an enviable reputation and an unquestioned business standing by our fair, square deal methods which have been the corner stone to this business for thirty-two years.

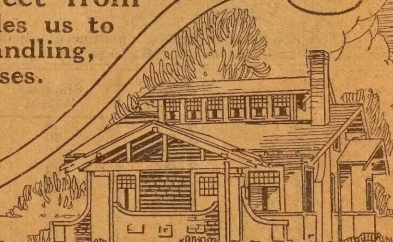
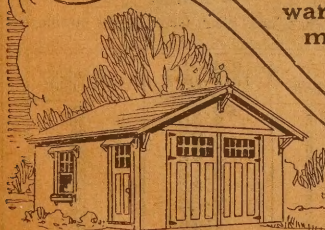
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Refer to the index on the yellow pages in the back of this book. Pick out the things you want and write on our order blank or any plain sheet of paper, the name of the article, our catalog number, giving size, finish or such description as is called for. Give your complete name, P. O. address, shipping point and state how you want shipment made—whether by parcel post, express or freight. Mail your order to us using the return envelope enclosed or any other envelope you may have including the necessary remittance to cover the amount required. If the amount is not figured exactly, we will return the balance due you or we will bill you for any small difference due us. Simple directions for figuring transportation charges will be found in the yellow pages.

About Shipment:

Unless otherwise stated, all articles in this book will be shipped to you direct from our headquarters plant here at Chicago. You will note there are many articles of heavy equipment and supplies quoted for shipment direct from warehouses at various points. This enables us to maintain our low prices by eliminating handling, transportation and warehouse expenses.

Branches and Warehouses
in
14 Cities



Clear Fir Interior Doors



Seattle

These handsome clear fir doors are made with edge grain stiles and rails, which are best for strength, and with slash grain panels, best for beauty, thus forming a rare combination of durability and style.

"Water-proof Glue" Is Used On All Our Doors.



Olympia

Panels in the 1 and 2 panel doors are 3-ply laminated veneered fir panels.

Panels in the 5-cross panel doors are solid fir panels, raised as shown in illustration.

★ Portland Doors marked with ★ can be furnished in 1" thickness @ \$2.60 each extra.



Portland

Sizes		SEATTLE 10-F-326 1 1/4 Ins. Thick	Shipping Weight	Sizes		OLYMPIA 10-F-327 1 1/4 Ins. Thick	Shipping Weight	Sizes		PORTLAND 10-F-325 1 1/4 Ins. Thick	Shipping Weight
Width	Height			Width	Height			Width	Height		
2-0x6-0		\$2.77	28	2-0x6-0		\$3.54	28	2-0x6-0		\$2.75	28
2-0x6-6		2.89	30	2-0x6-6		3.71	30	2-0x6-6		2.88	30
2-2x6-6		3.18	30	2-4x6-6		4.09	30	2-2x6-6		3.16	30
2-4x6-6		3.19	30	2-6x6-6		4.29	34	2-4x6-6		3.17	30
2-6x6-6		3.55	34	2-0x6-8		3.77	32	2-6x6-6		3.33	34
2-0x6-8		3.95	32	2-2x6-8		4.17	33	2-0x6-8		3.93	32
2-2x6-8		4.25	33	2-4x6-8		4.18	34	2-2x6-8		4.23	33
2-4x6-8		4.26	34	2-6x6-8		4.55	36	2-4x6-8		4.23	34
2-6x6-8		4.26	36	2-8x6-8		4.53	38	2-6x6-8		4.53	36
2-8x6-8		5.55	38	2-10x6-8		4.73	39	2-8x6-8		5.53	38
2-10x6-8		6.69	39	2-0x7-0		4.09	36	2-10x6-8		6.67	39
2-10x6-10		9.4	40	2-2x7-0		4.49	37	2-10x6-10		9.2	40
2-0x7-0		1.9	36	2-4x7-0		4.50	38	2-0x7-0		1.72	36
2-2x7-0		5.0	37	2-6x7-0		4.70	40	2-2x7-0		4.48	37
2-4x7-0		5.1	38	2-8x7-0		4.90	42	2-4x7-0		4.49	38
2-6x7-0		5.67	40	3-0x7-0		5.34	46	2-6x7-0		4.65	40
2-8x7-0		5.82	42					2-8x7-0		4.80	42
3-0x7-0		4.16	46					3-0x7-0		4.14	46



Alberta

Beautiful designs in clear fir interior doors of superior quality. You'll be able to use these doors to advantage particularly where either Colonial or Modern style of architecture is desired.

"Water-proof Glue" Is Used On All Our Doors.



Everett

They can be finished in natural wood, stained any color, or painted in Colonial White with perfect satisfaction. They are made to match front doors of similar design in this book.

Note: Sizes not listed not carried in stock



Rainier

These doors are of superior manufacture, being made with the solid edge Grain Stiles and Rails and with beautifully figured Slash Grain 3-ply laminated veneered Panels, guaranteed the best doors of their kind obtainable.

Sizes		ALBERTA 10-F-1917 1 1/4 Ins. Thick	Shipping Weight	Sizes		EVERETT 10-F-1919 1 1/4 Ins. Thick	Shipping Weight	Sizes		RAINIER 10-F-1917 1 1/4 Ins. Thick	Shipping Weight
Width	Height			Width	Height			Width	Height		
2-0x6-0		\$3.72	28	2-0x6-0		\$3.56	28	2-0x6-0		\$3.52	28
2-0x6-6		3.91	30	2-0x6-6		3.73	30	2-0x6-6		3.69	30
2-4x6-6		4.30	30	2-4x6-6		4.11	30	2-4x6-6		4.07	30
2-6x6-6		4.52	34	2-6x6-6		4.31	34	2-6x6-6		4.27	34
2-0x6-8		4.32	32	2-0x6-8		3.79	32	2-0x6-8		3.75	32
2-2x6-8		4.32	34	2-4x6-8		4.20	34	2-2x6-8		4.16	34
2-6x6-8		4.58	36	2-6x6-8		4.37	36	2-6x6-8		4.33	36
2-8x6-8		4.79	38	2-8x6-8		4.57	38	2-8x6-8		4.54	38
2-0x7-0		4.30	36	2-0x7-0		4.11	36	2-0x7-0		4.06	36
2-4x7-0		4.94	38	2-4x7-0		4.52	38	2-4x7-0		4.48	38
2-6x7-0		5.33	40	2-6x7-0		4.72	40	2-6x7-0		4.68	40
2-8x7-0			42	2-8x7-0		4.92	42	2-8x7-0		4.88	42
				3-0x7-0		5.36	46	3-0x7-0		5.32	46

Standard Designs in Fir



Montesano

These paneled front doors are popular designs suitable for the finest residence. They will harmonize well with practically any type of architecture. Although moderately priced, they have the beautiful appearance of high priced doors.



Salem

These small reproductions of the Montesano, Salem and Aberdeen front doors prevent us from presenting them to you as they will actually appear properly stained and finished in your building. The veneers are selected for beauty of grain. Furnished unfinished (in the white) in order that you may finish them to suit yourself.



Aberdeen

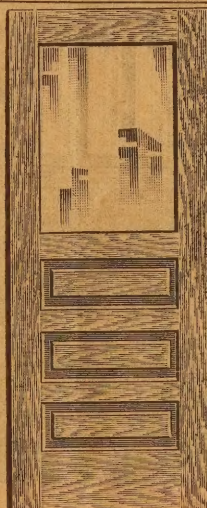
Elegant Craftsman and Mission style front doors designed for bungalows and residences of latest architecture. They are made of old growth soft yellow Fir, with solid quarter-sawn stiles and rails and have beautifully figured, 3-ply laminated slash grain panels. Will take any stain or finish. At the extremely low prices we are offering them, you get Hardwood Door values at moderate prices. Water-Proof Glue is used on all our doors.

SIZES:			MONTESANO		SALEM		ABERDEEN		Shipping Weight, Pounds
Width Ft. In.	Height Ft. In.	Thickness	10-F-640 Glazed Clear Glass D. S.	10-F-641 Glazed Beveled Plate Glass	10-F-642 Glazed Clear Glass D. S.	10-F-643 Glazed Beveled Plate Glass	10-F-644 Glazed Clear Glass D. S.	10-F-645 Glazed Beveled Plate Glass	
2- 8x6- 8		1 3/4 inches	\$4.16	\$ 7.73	\$6.55	\$ 9.79	\$5.86	\$ 8.71	75
2- 8x7- 0		1 3/4 inches	4.43	7.98	6.88	10.13			85
3- 0x7- 0		1 3/4 inches	4.86	9.12	7.36	11.60	6.71	10.95	90
2- 8x6- 8		1 3/4 inches	5.16	8.64	7.81	11.06	7.12	9.97	85
2- 8x7- 0		1 3/4 inches	5.51	8.96	8.24	11.49	7.55	10.40	85
3- 0x7- 0		1 3/4 inches	6.01	10.27	8.83	13.04	8.15	12.39	100



Washington

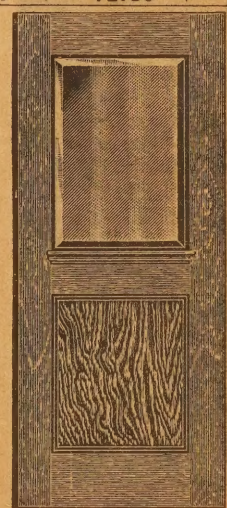
Carefully selected clear Fir front doors made with edge grain stiles and rails and 3-ply laminated slash grain panels to show the beautiful grain.



California

Finest construction thru-out, smoothly sanded, guaranteed not to warp or twist providing ordinary care is used when received. Ready for paint or stain.

Water-Proof Glue Is Used On All Our Doors



Oregon

SIZES:			WASHINGTON		CALIFORNIA		OREGON		Shipping Weight, Pounds
Width Ft. In.	Height Ft. In.	Thickness	10-F-378 Glazed Clear Glass D. S. A.	10-F-379 Glazed Bevel Plate Glass	10-F-696 Glazed Clear Glass D. S. A.	10-F-697 Glazed Florentine	10-F-381 Glazed Clear Glass D. S. A.	10-F-382 Glazed Bevel Plate Glass	
2- 6x6- 6		1 1/2 inches	\$5.73	\$15.65	\$4.25	\$4.87	\$4.77	\$14.00	95
2- 8x6- 8		1 1/2 inches	5.98*	18.03*	4.50	5.27	5.15*	15.07*	105
2- 10x6- 10		1 1/2 inches	6.69*	20.96*	4.97	5.86	5.68*	16.91*	115
2- 8x7- 0		1 1/2 inches	6.35*	19.86*	5.07*	5.73*	5.49*	16.75*	115
3- 0x7- 0		1 1/2 inches	7.05*	23.20*	5.43*	6.32*	6.08*	19.12*	120

★We can furnish these Washington, Pacific or Oregon doors 1 1/4 inches thick at \$2.60 extra.

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

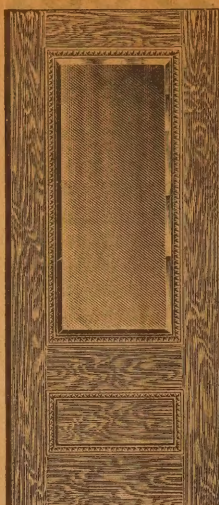
Oak, Birch and Fir Doors



Shakespeare

These artistically designed front doors reflect good taste. The attractive grain of the wood and impressive glazed effects make any one of these three doors desirable selections that will add a splendid touch to any entrance.

Veneered doors must be stored in perfectly dry place and given a coat of "filler" before exposed to weather of any kind.



Mozart

These high-grade first quality veneered hard-wood doors bring out the beautiful grain of the wood. Carefully made by skilled craftsmen to embody all that is best in appearance and ability to stand the test of time.

Veneered doors must be stored in perfectly dry place and given a coat of "filler" before exposed to weather of any kind.



American Beauty

The illustrations of Hardwood Front Doors shown on this page are as near like the original product as pictures can make them. The improved rotary cut veneer process makes the ordinary Birch resemble very closely the higher priced curly birch. In Oak Doors, most people prefer this method of veneering to the finest quarter-sawed oak. But this is not the only modern improvement which distinguishes our veneered doors from the common variety. They are different—built better. "Water Proof" Glue is used on all our doors.

1 3/4 Inch Thick SIZES		SHAKESPEARE				MOZART				AMERICAN BEAUTY				Shipping Weight Pounds	
		Red Oak		Northern Birch		Red Oak		Northern Birch		Red Oak		Northern Birch			
		10- F-217 Glazed Clear D.S.A.	10- F-218 Glazed Beveled Plate	10- F-219 Glazed Clear D.S.A.	10- F-220 Glazed Beveled Plate	10- F-264 Glazed Clear D.S.A.	10- F-266 Glazed Beveled Plate	10- F-740 Glazed Clear D.S.A.	10- F-741 Glazed Beveled Plate	10- F-1 Glazed Clear D.S.A.	10- F-3 Glazed Beveled Plate	10- F-251 Glazed Clear D.S.A.	10- F-253 Glazed Beveled Plate		
Width	Height														
2 ft. 8 in.	8 in. x 6 ft.	8 in.	\$17.47	\$30.64			\$14.34	\$22.52	\$12.04	\$20.21	\$14.25	\$25.64	\$11.96	\$23.14	130
2 ft. 10 in.	8 in. x 6 ft.	10 in.	18.48	31.33	\$15.49	\$28.33.	15.40	25.25	12.90	22.75	15.51	28.83	13.00	26.33	140
2 ft. 8 in.	8 in. x 7 ft.	0 in.	18.05	31.24	15.08	28.25	15.26	24.62	12.79	22.15	15.06	27.47	12.59	25.00	145
2 ft. 10 in.	8 in. x 7 ft.	0 in.	18.88	31.58					13.25	23.70			13.41	27.58	150
3 ft. 0 in.	8 in. x 7 ft.	0 in.	19.27	31.97			16.47	28.85	13.79	25.36	16.52	32.52	13.83	29.83	155



Winona

Fir
Bungalow
and Cottage
Doors



Columbia

Of The Latest
and Most
Attractive
Designs



Victoria

Here are three beautiful designs especially adapted for the finest homes. Well made, strong and substantial high grade doors. Clear kiln-dried Fir lumber, solid edge grain stiles and rails. 3-ply laminated panels showing the beautifully figured grain; when properly finished, no one but an expert could distinguish them from the most expensive hardwood doors. Best door values obtainable. Best quality Water-proof Glue used.

SIZES Width Height ft. in. ft. in.		WINONA		COLUMBIA		VICTORIA		Shipping Weight Pounds
		Thickness		Thickness		Thickness		
2-8x6-8	1 1/4 inches	\$5.52	\$10.75	\$6.32	\$10.99	\$7.51	\$12.53	80
2-8x6-8	1 1/4 inches	6.79	12.02	7.58	12.26	8.77	13.79	95
3-0x7-0	1 1/4 inches	7.79	13.84	8.69	14.10	9.84	16.00	105



Oak and Birch Doors

The stiles, rails, and panels in all these doors are laminated, that is, built up from two outside plies of veneer selected for beauty of grain, and a center core, the grain of the core running in opposite directions. Thus one-layer strengthens the other layer next to it and the result is the permanent, extra strong panel.

Water-proof Glue Is Used on All Our Doors.



Pilgrim

Oak and Birch Doors

Only the highest grade of workmanship goes into our Oak and Birch doors. They are as beautifully flaked and figured as the front doors, therefore, will permit the finishing in the natural wood. Birch is especially suitable for staining to imitate mahogany. Suitable for finest residences.

Veneered doors must be stored in a perfectly dry place and given a coat of "filler" before exposed to weather of any kind.



Elite

The Birch Doors being made from a naturally close grained wood will take the finest eggshell and white enamel finish. Guaranteed interlocking core construction. In Veneered Red Oak and Northern Birch.

Be Sure to State Thickness	KENWOOD		PILGRIM		ELITE		Shipping Weight Pounds
	Red Oak 10-F-335	Northern Birch 10-F-336	Red Oak 10-F-11	Birch 10-F-12	Red Oak 10-F-9	Northern Birch 10-F-10	
	1 1/2 inch thick	1 1/2 inch thick	1 1/2 inch thick	1 1/2 inch thick	1 1/2 inch thick	1 1/2 inch thick	
2-0 x 6-0	\$11.29	\$ 8.97			\$ 8.84	\$ 6.87	55
2-0 x 6-6	11.49	9.12			9.04	6.82	60
2-4 x 6-6	11.93	9.46			9.48	7.16	62
2-6 x 6-6	12.25	9.71			9.80	7.40	77
2-0 x 6-8	11.55	9.17	\$ 9.65	\$ 7.27	9.10	6.87	79
2-2 x 6-8	11.74	9.32	9.84	7.62	9.29	7.02	80
2-4 x 6-8	12.00	9.51	10.10	7.81	9.57	7.21	82
2-6 x 6-8	12.30	9.76	10.42	8.06	9.89	7.46	84
2-8 x 6-8	12.70	10.03	10.80	8.33	10.25	7.75	86
2-10 x 6-10		10.74			11.15		90
2-0 x 7-0	12.32	9.75	10.42	8.06	9.87	7.46	85
2-2 x 7-0	12.51		10.65	8.20	10.06		88
2-4 x 7-0	12.75	10.10	10.87	8.40	10.32	7.80	90
2-6 x 7-0	13.08	10.34	11.19	8.65	10.64	8.04	95
2-8 x 7-0	13.47	10.64	11.57	8.94	11.02	8.34	100
2-10 x 7-0	13.92		12.02	9.29			105
3-0 x 7-0		11.37			11.98	9.27	110



Greenwood

Oak Doors

The Greenwood, Keystone and Rubens Doors, make very neat and substantial front doors and are especially designed for the present style bungalow and residence architecture.



Keystone

Oak Doors

These doors are made from carefully selected stock, especially selected for its beauty of grain and color. Substantial improved construction is featured in all designs.



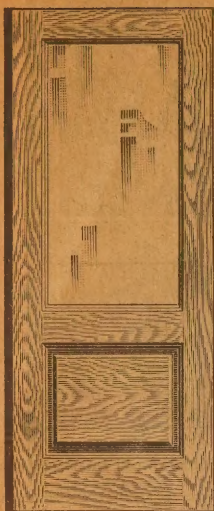
Rubens

These doors are the Latest Craftsman designs. Veneered in clear red oak, with white pine cores, interlocked and glued, making a door foundation that is the best known today. Over this core or foundation is applied perfected clear Red Oak veneer, a product of oak logs of the very best quality. The veneered door properly made is a great deal more desirable than the solid door. Water-proof Glue is used on all our doors.

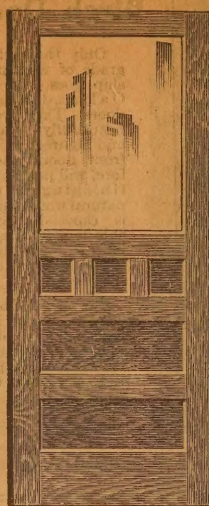
SIZE		GREENWOOD		KEYSTONE		RUBENS		Shipping Weight Pounds
Width, Height ft. in. ft. in.	Thickness	10-F-442 Glazed Clear D. S. A.	10-F-443 Glazed Beveled Plate	10-F-447 Glazed Clear D. S. A.	10-F-448 Glazed Beveled Plate	10-F-240 Glazed Clear D. S. A.	10-F-241 Glazed Beveled Plate	
2-8x6-8	1 1/2 inches	\$13.45	\$17.71	\$14.46	\$18.00	\$15.03	\$19.30	110
2-8x7-0	1 1/2 inches	14.25	18.49	15.25	18.79	15.83	20.10	115
3-0x7-0	1 1/2 inches	15.31	20.47	16.32	20.26	16.89	22.70	125

Only sizes listed carried in stock. Prices on other sizes on application.

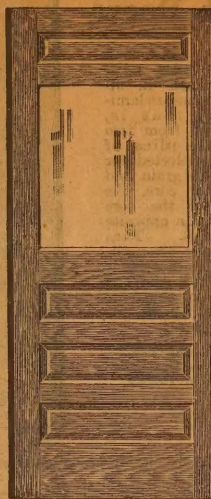
White Pine—Special Values



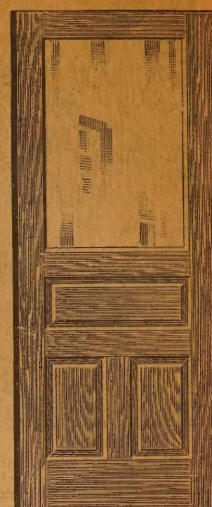
Lilac



Violet



Mignonette



Tulip

CLEAR WHITE PINE DOORS in neat paneled styles with clear double strength plain glass or with Florentine Glass. Will finish splendidly in varnish, paint or enamel. First quality doors throughout, solid panels as shown.

SIZES			LILAC		VIOLET		MIGNONETTE		TULIP		Shipping Weight Pounds
W'th. ft. in.	H't. ft. in.	Thickness	10-F-403 Glazed D. S. A. as shown	10-F-409 Glazed 1 1-2 in. Bevel Plate	10-F-36 Glazed Clear D. S. A.	10-F-37 Glazed Florentine Glass	10-F-32 Glazed Clear D. S. A.	10-F-33 Glazed Florentine Glass	10-F-40 Glazed Clear D. S. A.	10-F-388 Glazed Florentine Glass, Obscure	
2- 6x6- 6	1 1/4 inches		\$5.20	\$13.07	\$5.09	\$5.57	\$4.86	\$5.28	\$4.67	\$5.17	70
2- 8x6- 8	1 1/4 inches		5.52*	14.69*	5.52	5.89	5.12	5.61	4.86*	5.46*	75
2-10x6-10	1 1/4 inches		6.05*	16.35*	5.89	6.43	5.63	6.16	5.39	6.02	80
2- 8x7- 0	1 1/4 inches		5.98*	16.03*	.....	.....	5.54*	6.06*	5.31*	5.91*	80
3- 0x7- 0	1 1/4 inches		6.21*	17.76*	.....	.....	.....	.....	5.81*	6.37*	90

Doors marked with * can be furnished in 1 3/4 inches thickness @ \$2.60 each extra.



Golden Glow

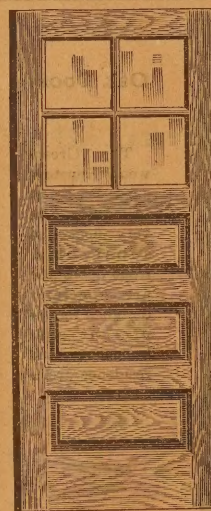


Peony

White Pine Front Doors

In this quartet of first quality clear soft pine doors we present unmatched values. Neat glazed effects, practical and substantial. Take any finish—varnish, paint or enamel.

All doors are, of course, first quality of clear kiln-dried lumber thruout—solid panels as shown.



Aster



Holly

SIZES			GOLDEN GLOW		PEONY		ASTER		HOLLY		Shipping Weight Pounds
W'th. ft. in.	H't. ft. in.	Thickness	10-F-333 Glazed Clear D. S. A.	10-F-334 Glazed Florentine Glass	10-F-445 Glazed Clear D. S. A.	10-F-446 Glazed Bevel Plate	10-F-328 Glazed D. S. A. as shown	10-F-329 Glazed Clear Florentine	10-F-411 Glazed Plain D. S. A.	10-F-412 Glazed Lead Bevel Plate as shown	
2- 6x6- 6	1 1/4 inches		\$4.77	\$5.25	\$5.09	\$8.82	\$5.51	\$6.13	\$6.77	\$11.15	70
2- 8x6- 8	1 1/4 inches		5.04*	5.57*	5.39*	9.59*	5.75*	6.42*	6.93*	11.39*	75
2-10x6-10	1 1/4 inches		5.57*	6.11*	5.89	10.43	6.32	7.04	7.50	11.86	85
2- 8x7- 0	1 1/4 inches		5.42*	6.00*	5.84*	10.03*	6.26*	6.95*	7.46*	11.84*	80
3- 0x7- 0	1 1/4 inches		5.86*	6.48*	6.21*	11.30*	6.50*	7.39*	7.78*	12.80*	90

Doors marked with * can be furnished in 1 3/4 inches thickness @ \$2.60 each extra.

White Pine Front and Inside Doors



Iris

Here are some attractive new designs of beautiful front doors made of clear soft white pine. Any one of them will add a touch of good taste to the entrance of any home.

★ These doors can be furnished 1 3/4" thick at \$2.60 additional.



Phlox

A-1 Quality Through-out

Solidly built of carefully selected thoroughly seasoned lumber and securely put together to endure. Take paint or any finish perfectly.



Pansy

1 3/4 Inch Thick Width Height ft. in.	IRIS		PHLOX		PANSY		Shipping Weight Pounds
	10-F-627 Glazed Clear D. S. A.	10-F-628 Glazed Beveled Plate	10-F-638 Glazed Clear D. S. A.	10-F-639 Glazed Beveled Plate	10-F-523 Glazed Clear D. S. A.	10-F-524 Glazed Beveled Plate	
2- 6x6- 6	\$4.67	\$13.04	\$5.95	\$16.03	\$7.52	\$15.30	30
2- 8x6- 8	4.96 ★	14.43 ★	6.27	19.30	7.71 ★	16.24 ★	32
2-10x6-10	5.41	16.10	6.64	20.24	8.37 ★	17.53 ★	34
2- 8x7- 0	5.36 ★	16.67 ★	6.59	20.67			36
3- 0x7- 0	5.73 ★	18.16 ★	7.09	24.02	8.88 ★	18.34 ★	38

Where we have ★ prices we can furnish Doors in these sizes 1 3/4" thick at \$2.60 extra.

White Pine Inside or Outside Doors



10-F-56

Clear White Pine Panel Doors

These are the old standbys—white pine all the way through—no yellow pine panels to shrink and crack—best quality only. Why buy a cheaper grade when the difference in price is only a few cents?



10-F-57

A-1 Quality Only

Made with extra strong joints, mortised and tenoned. Doors designated as "A" quality mean that they are made of best, clear selected stock suitable for any style of finish. Three standard panel designs of highest quality.



10-F-59

SIZES Ft. In. Ft. In.			Thickness in.	"A" Quality	Ship. Wt., Lbs.	SIZES Ft. In. Ft. In.			Thickness in.	"A" Quality	Ship. Wt., Lbs.	SIZES Ft. In. Ft. In.			Thickness in.	"A" Quality	Ship. Wt., Lbs.		
2- 0x6- 0	1 3/4	\$3.23	28	2- 0x6- 0	1 3/4	\$3.24	28	2- 0x6- 0	1 3/4	\$3.17	28	2- 0x6- 0	1 3/4	\$3.17	28	2- 0x6- 0	1 3/4	\$3.17	28
2- 0x6- 6	1 3/4	3.39	30	2- 0x6- 6	1 3/4	3.40	30	2- 0x6- 6	1 3/4	3.33	30	2- 0x6- 6	1 3/4	3.33	30	2- 0x6- 6	1 3/4	3.33	30
2- 6x6- 6	1 3/4	3.92	34	2- 6x6- 6	1 3/4	3.93	34	2- 6x6- 6	1 3/4	3.67	34	2- 6x6- 6	1 3/4	3.67	34	2- 6x6- 6	1 3/4	3.67	34
2- 0x6- 8	1 3/4	3.45	34	2- 0x6- 8	1 3/4	3.45	32	2- 0x6- 8	1 3/4	3.85	32	2- 0x6- 8	1 3/4	3.85	32	2- 0x6- 8	1 3/4	3.85	32
2- 6x6- 8	1 3/4	3.98	36	2- 6x6- 8	1 3/4	3.99	36	2- 6x6- 8	1 3/4	3.39	34	2- 6x6- 8	1 3/4	3.39	34	2- 6x6- 8	1 3/4	3.39	34
2- 8x6- 8	1 3/4	4.16	38	2- 8x6- 8	1 3/4	4.17	38	2- 8x6- 8	1 3/4	3.75	36	2- 8x6- 8	1 3/4	3.75	36	2- 8x6- 8	1 3/4	3.75	36
2- 0x7- 0	1 3/4	3.74	36	2- 0x7- 0	1 3/4	3.75	36	2- 0x7- 0	1 3/4	3.90	38	2- 0x7- 0	1 3/4	3.90	38	2- 0x7- 0	1 3/4	3.90	38
2- 6x7- 0	1 3/4	4.29	40	2- 6x7- 0	1 3/4	4.30	40	2- 6x7- 0	1 3/4	4.08 ★	40	2- 6x7- 0	1 3/4	4.08 ★	40	2- 6x7- 0	1 3/4	4.08 ★	40
2- 8x7- 0	1 3/4	4.48	42	2- 8x7- 0	1 3/4	4.49	42	2- 8x7- 0	1 3/4	4.53 ★	36	2- 8x7- 0	1 3/4	4.53 ★	36	2- 8x7- 0	1 3/4	4.53 ★	36
3- 0x7- 0	1 3/4	4.88	46	3- 0x7- 0	1 3/4	4.89	46	3- 0x7- 0	1 3/4	3.67	36	3- 0x7- 0	1 3/4	3.67	36	3- 0x7- 0	1 3/4	3.67	36
You will always get quick service by ordering stock sizes and designs from our catalog. If you must have "Special" or made-to-order goods, we will gladly furnish them; but remember they cost more and you must allow from three to four weeks extra time. Sizes not listed and odd sizes are considered																			

You will always get quick service by ordering stock sizes and designs from our catalog. If you must have "Special" or made-to-order goods, we will gladly furnish them; but remember they cost more and you must allow from three to four weeks extra time. Sizes not listed and odd sizes are considered "Special." If you order stock sizes and special goods, please advise if you want us to ship stock items at once, or hold the entire order awaiting the completion of "Special" items. Avoid disappointment by ordering your requirements well in advance.

Where we have ★ prices we can furnish Doors in these sizes 1 3/4" thick at \$2.60 extra.

Finest White Pine Front Doors



Whittier

White Pine

Choice designs, made of specially selected clear kiln-dried white pine lumber. When glazed double strength glass or beveled plate, add beauty to any residence. Smoothly sanded and will finish splendidly in paint or enamel. Guaranteed A-1 quality doors throughout.



Honeysuckle

White Pine

The Colonial front door combines strong, solid construction, paneled to create a dignified, impressive design. Especially suited for Colonial design homes. This door is very frequently used in connection with Colonial side lights offered elsewhere in this catalog.



Colonial

Clear soft white pine front doors. Cannot be equalled for long service under most severe weather conditions. Strictly first-class, a door of the highest rank at lowest prices.

SIZES Width Height		WHITTIER—1½ In. Thick		HONEYSUCKLE—1½ In. Thick		COLONIAL—1½ In.	Shipping Weight Pounds
		10-F-877 Glazed Clear D.S.A.	10-F-878 Glazed Beveled Plate	10-F-15 Glazed Clear D.S.A.	10-F-16 Glazed Beveled Plate	10-F-324 1½" Thick	
2 ft. 0 in. x 6 ft. 6 in.	6 in.	\$8.50 *	\$23.15 *	\$6.56	\$20.66		70
2 ft. 8 in. x 6 ft. 8 in.	8 in.			6.74 *	\$23.97 *	\$7.86	75
2 ft. 10 in. x 6 ft. 10 in.	10 in.			7.52 *	27.23 *		85
2 ft. 8 in. x 7 ft. 0 in.	0 in.	8.86 *	23.50 *	7.09 *	25.57 *		80
3 ft. 0 in. x 7 ft. 0 in.	0 in.	9.59 *	23.70 *	7.83 *	29.56 *	8.96	90

* Door can be furnished 1½ in. thick at \$2.60 additional.

Colonial, Porch and Terrace French Doors



Virginia

White Pine

Clear, kiln dried white pine lumber, perfectly manufactured. The division bars are extra heavy and are mortised into the stiles and rails, making them exceptionally strong. The glass is held in place with wood stops, not with putty.



Carolina

White Pine

Colonial and French Doors representing the very latest in French, Balcony and Vestibule Doors. You'll also find them very desirable for sun parlors and sleeping porches, and where plenty of light is wanted. Never in the history of house building have our sales on this item been as great as at present — there's a reason — real quality.

French Doors in Pairs Shown on Page 11.

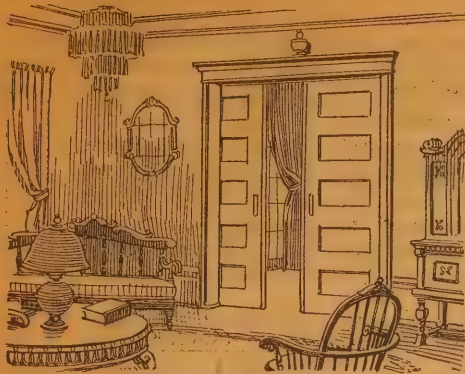


Maryland

SIZES Thickness		VIRGINIA		CAROLINA		MARYLAND		Shipping Weight Pounds
		10-F-1150 Glazed D. S. A.	10-F-1151 Gl. Beveled Plate	10-F-1152 Glazed D. S. A.	10-F-1153 Gl. Beveled Plate	10-F-1154 Glazed D. S. A.	10-F-1155 Gl. Beveled Plate	
2-8 x 6-8	1½ inches	\$7.03	\$21.06	\$ 7.12	\$20.16	\$ 7.30	\$17.92	90
2-8 x 7-0		7.28	21.31	7.55	21.20	7.86	18.66	95
3-0 x 7-0		7.76	23.38	7.94	27.86	8.11	24.67	100
2-8 x 6-8	1¾ inches	9.65	23.68	9.68	22.72	10.02	20.67	100
2-8 x 7-0		10.13	24.16	10.34	23.99	10.82	21.62	105
3-0 x 7-0		10.64	26.26	10.77	30.69	11.07	27.68	115

French Doors in Pairs Oak, Birch, White Pine and Fir

For Both NEW and OLD HOUSES

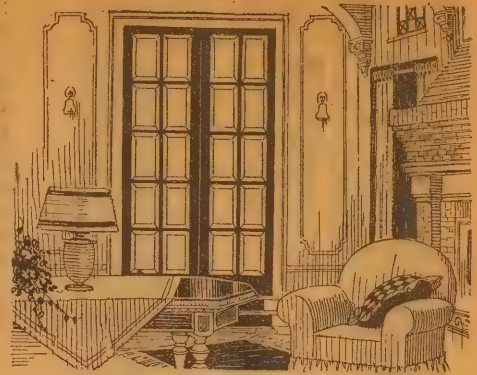


The Old Fashioned Room

Make your home up-to-date, add greatly to its beauty as well as its selling value by installing one or more pair of French doors, both for interior and exterior—it is all the rage. You will be agreeably surprised at the enhanced beauty of your home by adding these practical light-giving, beautiful French doors.

Where you have old sliding doors or cased openings, in many instances our stock doors will fit, or can be made to fit with slight trimming.

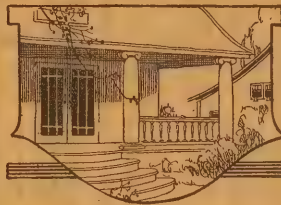
All our French doors are guaranteed first quality doors throughout, clear kiln dried lumber, glass set with wood stops (not puttied), strong, handsomely moulded bevel edged division bars. Wide stiles and rails, made for standard locks. Nothing skimpy or cheap about the doors excepting the price.



The Modern Room



10-F-310



In the more up-to-date residences, bungalows, and modern homes, French Doors and Windows are becoming increasingly popular.

Furnished in "A" quality White Pine, Fir, Veneered Clear Red Oak or Northern Birch; glazed Clear "A" double strength glass, and beautiful beveled plate glass.

These doors are extra strong and exceptionally well made and carried in stock in Pine and Fir, both 1 3/4 and 1 1/2 thick. Oak and Birch are carried in stock in 1 1/4 inches only.

Price includes a flat Astragal with each pair of doors, for over joints.

Single French Doors shown on preceding page.



10-F-311

Prices Per Pair

STYLE GLAZING WOOD		10-F-310 Double Strength Glass					
		Fir		White Pine		Oak	Birch
THICKNESS, Inches	SIZE	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2
4-0x6-8		\$ 9.89		\$12.38	\$16.74	\$24.23	\$20.16
4-0x7-0		10.34		12.96	17.59	25.38	21.03
5-0x6-8		11.43	\$12.74	13.58	18.10	26.34	22.02
5-0x7-0		11.81	13.25	14.18	19.09	27.52	22.88
5-4x6-8		11.86		13.70	18.23	26.95	22.45
5-4x7-0		12.22		14.23	19.19	28.10	23.31

GLAZING WOOD		10-F-311 Beveled Plate Glass					
		Fir		White Pine		Oak	Birch
THICKNESS, Inches	SIZE	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2
4-0x6-8		\$27.94		\$30.34	\$34.69	\$42.18	\$38.08
4-0x7-0		28.29		30.91	35.54	44.93	38.98
5-0x6-8		38.28	\$39.39	40.43	44.95	53.22	48.87
5-0x7-0		39.87	41.31	42.24	47.14	55.59	50.95
5-4x6-8		39.92		41.76	46.29	55.01	50.51
5-4x7-0		40.28		42.29	47.25	56.16	51.38

STYLE GLAZING WOOD		10-F-311 Double Strength Glass						Shipping Weight, Pounds
		Fir		White Pine		Oak	Birch	
THICKNESS, Inches	SIZE	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	
4-0x6-8		\$12.02		\$13.57	\$17.81	\$24.75	\$22.19	130
4-0x7-0		12.37		14.15	18.66	27.50	23.06	135
5-0x6-8		12.99	\$14.31	14.11	18.45	27.84	23.39	140
5-0x7-0		13.87	15.31	15.20	19.97	29.49	24.75	145
5-4x6-8		13.43		14.43	18.83	28.62	24.03	150
5-4x7-0		14.43	15.94	15.58	20.43	30.40	25.52	155

GLAZING WOOD		10-F-311 Beveled Plate Glass						Shipping Weight, Pounds
		Fir		White Pine		Oak	Birch	
THICKNESS, Inches	SIZE	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	
4-0x6-8		\$37.22		\$38.77	\$43.01	\$51.55	\$47.39	130
4-0x7-0		39.46		41.23	45.75	54.59	50.15	135
5-0x6-8		39.91	\$41.15	40.96	45.30	54.69	50.24	140
5-0x7-0		45.44	47.01	46.90	51.67	61.19	56.45	145
5-4x6-8		46.91		47.92	52.32	62.11	57.52	150
5-4x7-0		50.40	51.91	51.55	56.40	66.37	61.49	155

DOORS NOT PRICED NOT CARRIED IN STOCK. SPECIAL SIZES MADE TO ORDER AT ADVANCED PRICES

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Bevel and Plain Plate Mirror Doors



Full length Mirror Doors combine the useful purpose of both door and wall mirror at a lower price and reduces danger of breakage.

Plenty of choice as to sizes, three kinds of wood, and both Plain and Beveled Plate mirror. Naturally you will want your mirror door in your dressing room and as a closet door it will serve the double purpose admirably.

Our mirrors are of the regular standard American Beauty grade—noted for their high luster and lasting qualities. The mirror side of the door is finished as shown in the picture. The other side is regularly finished, two panel, like our "Elite and Seattle" door. Can also be furnished with one panel doors. Our mirror doors are packed so well that they cannot be marred in transit.

1 3/4 inches thick SIZES	Approx. Size of Plate Mirror	PRICES OF "FULLVIEW" MIRROR DOORS						Shipping Wgt. Lbs.
		Red Oak		Northern Birch		Fir		
		10-F-289 Plain Plate Mirror	10-F-290 Bevel Plate Mirror	10-F-291 Plain Plate Mirror	10-F-292 Bevel Plate Mirror	10-F-293 Plain Plate Mirror	10-F-294 Bevel Plate Mirror	
W'th. Ht. ft. in. ft. in.								
2-0x6-6	16x66	\$25.20	\$30.12	\$22.98	\$27.90	\$19.46	\$24.38	75
2-2x6-6	18x66					21.53	26.71	80
2-4x6-6	20x66	28.80	34.24	24.89	30.07	23.13	28.57	80
2-6x6-6	22x66	32.19	37.89	29.69	35.39	26.29	31.99	85
2-0x6-8	16x68	25.64	30.82	23.41	28.59	20.05	25.23	90
2-2x6-8	18x68	27.47	32.89	25.18	30.62	22.04	27.48	95
2-4x6-8	20x68	30.12	35.82	27.01	32.81	23.69	29.39	100
2-6x6-8	22x68	32.72	38.67	30.31	36.26	26.90	32.85	110
2-0x7-0	16x72	27.17	32.87	24.76	30.46	21.11	26.81	115
2-2x7-0	18x72	28.86	34.81			22.98	28.93	120
2-4x7-0	20x72	30.82	37.02	28.30	34.50	24.69	30.89	125
2-6x7-0	22x72	34.63	41.09	32.03	38.49	28.37	34.83	130
2-8x7-0	24x72	36.88	43.59	34.20	40.91	30.42	37.13	135

Inside Door and Opening Jambs

Cut smooth and true, clear face stock. Side jambs dadoed for heads, heads cut square and straight. Prices do not include inside doorstops, which are extra. See price list below. Our standard jamb is 5 1/4 inches wide.

Standard Door Jambs Without Stops



Special!

3/8"x1 1/8" O. G. stops.

Add for Yellow Pine stopstopprice of Yellow Pine jambs per set.....**25c**

Add for Red Oak stops to price of Red Oak jambs per set.....**50c**

Yellow Pine Jambs weigh approximately 18 lbs. shipping wt.

Red Oak Jambs weigh approximately 28 lbs. shipping wt.

Clear Fir Jambs, add 10 per cent. to Yellow Pine prices.

Unselected Birch Jambs same price as Red Oak.

10-F-101. Inside door jambs for 2x4 studding, for doors 2 ft. 6 in. by 6 ft. 6 in. and under—Yellow Pine. Price, each.....**89c**
2 ft. 8 in. by 6 ft. 8 in.....**95c**
3 ft. by 7 ft.**98c**

10-F-602. Inside door jambs for 2x4 studding, for doors 2 ft. 6 in. by 6 ft. 6 in., or smaller sizes—Red Oak. Price, each.....**\$1.76**

10-F-603. Same as above, except for sizes up to 2 ft. 8 in. by 6 ft. 8 in.—Red Oak. Price, each...**\$1.86**

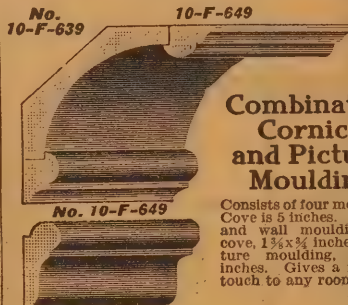
10-F-604. Same as above, except for sizes up to 3 ft. by 7 ft.—Red Oak. Each.....**\$1.96**

Intermediate sizes take next higher price.

Inside Cased Opening Jambs

Cased opening jambs are made the same as regular standard door jambs except for wider and higher openings. Price covers one complete frame made for 2x4 studding without stops. 5 1/4 inches wide overall. For stops, see moulding pages.

SIZE Feet	10-F-625 Yellow Pine	10-F-626 Plain Red Oak	Shipping Weight Pounds
5 x 7	\$1.29	\$1.80	30
8 x 8	1.49	2.20	40
9 x 9	1.69	2.50	45



Combination Cornice and Picture Moulding

Consists of four members: Cove is 5 inches. Ceiling and wall mouldings on cove, 1 1/4 x 3/4 inches. Picture moulding, 3/4 x 1 1/4 inches. Gives a finished touch to any room.

Per 100 Lineal Feet

Ceiling Mould, 10-F-649—Clear Yellow Pine.	\$ 1.53
Cove " 10-F-639— " " "	8.60
Wall " 10-F-649— " " "	1.53
Picture " 10-F-8264— " " "	1.60
Ceiling " 10-F-649—Red Oak,	2.98
Cove " 10-F-639— " " "	17.20
Wall " 10-F-649— " " "	2.98
Picture " 10-F-8264— " " "	3.40

Wainscot Panels

10-F-550. The beautifully figured slash grain Pacific Coast Fir makes the finest panels imaginable. Can be stained and finished to imitate oak, mahogany and other expensive woods. Fir Panels are laminated, that is, built up 3-ply, with the center layer running crosswise to the face, making them strong and warp-proof, like the panels in our high grade Fir doors. The following table lists the sizes we carry in stock. Prices are for panels with one side ready to finish:

Size, Inches	Price	Size, Inches	Price
12x48	\$0.48	12x60	\$0.60
16x48	.65	16x60	.80
18x48	.72	18x60	.90
20x48	.93	20x60	1.05
24x48	1.04	24x60	1.25

For two sides ready to finish add 50 per cent, or half more. Our Panels are cut evenly and in correct sizes. **WRITE FOR FREE SAMPLE.**

10-F-549. Panel Strips or the upright pieces used to form the panel effect are 5-16x2 1/4 inches.

Yellow Pine, price per lineal foot.....**3c**
Plain Red Oak, price per lineal foot.....**6c**

For Additional Panel Strips See Page 40.

GARAGE AND MULTIFOLD DOORS



ASHLAND



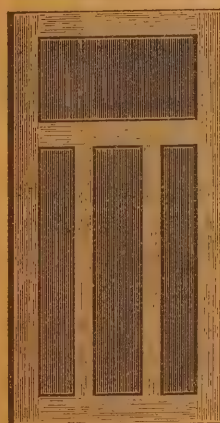
ATLAS



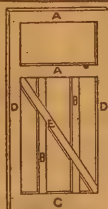
Triple Combination of ATLAS DOORS

Our Multifold Combination Garage and Warehouse Doors are made of Clear Kiln Dried Fir. The stiles and rails of the doors are mortised and pinned which construction gives you not only a substantial door, but a door that is more durable. The panels are extra heavy, being set into the grooves of the stiles and rails by means of special machinery, making it practically impossible for the panel to warp or check. Water-proof glue is used on all our doors. In offering you these doors it is our intention to give you the best value obtainable for the money, and we must ask that you do not confuse these doors with the so-called "just-as-good-makes" on the market at the present time. Remember, our doors are made of Fir, of mortised and pinned construction, and equipped with durable panels—three distinct and essential features necessary to make a good garage or warehouse door. Hardware not included.

ASHLAND DOOR						MULTIFOLD COMBINATION		SINGLE DOOR	DOUBLE COMBINATION	TRIPLE COMBINATION
Catalog Number	Size of each door			2 doors will fit opening	Price, per pair	Shipping Weight	Size of each door	2'8"x8'	2'8"x8'0"	2'8"x8'
	Width	Height	Thickness	2 doors	Pounds	Total size					5'4"x8'0"	8'x8'
10-F-502	4 Ft.	8 Ft.	1 3/4 inches	8'x8'	\$16.35	210	Price, Atlas, 10-F-1445 1/2	\$5.95	\$11.85	\$17.35



"PALMER"



Construction

"PRESTO" doors are extra strong and specially braced.

All mortise and tenoned joints glued and pinned. Made from clear Oregon Fir Lumber. The top and middle cross member (a) 2x8. Vertical Mullions (b) 2x4. Bottom cross member (c) 2x8. Outside stiles (d) 2x6. Net thickness of the door is about 1 3/4 inches. All members are deeply rabbeted to receive the Clear kiln-dried Fir Beaded Ceiling under tremendous pressure, by special machinery. The back of the door is braced diagonally (e) and this brace is dadoed into the 2x4 stiles (b) so that it not only gives shoulder and heel brace but also two center braces. It is the dadoing of the mullions (b) into which the diagonal brace (e) is fitted that positively prevents sagging.



"GARFIELD"

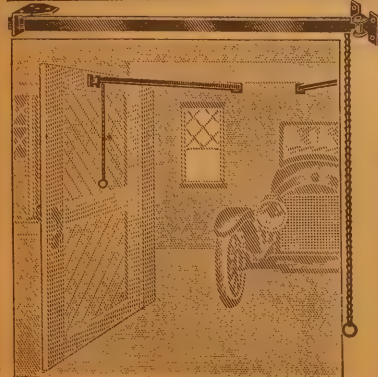
PRESTO "No Sag" Garage Doors 3 Sizes

The days of the old high type of automobile, requiring high openings are past. The average present day automobile can easily and with plenty of clearance enter into a 7'8" door. We are quoting below three sizes that will take care of practically any size garage.

The 3'9" wide are made for the builder who wishes to build a double garage limited to 16' front and will give a door opening width of 7'6" wide for each car.

PALMER				GARFIELD			
Number	Net Size, Each	Pair will fit opening size	Price Each	Number	Net Size, Each	Pair will fit opening size	Price Each
38-F-1927	3'9"x7'8"	7'6" wide x 7'8" high	\$7.00	38-F-1930	3'9"x7'8"	7'6" wide x 7'8" high	\$8.00
38-F-1928	4'0"x7'8"	8'0" wide x 7'8" high	7.59	38-F-1931	4'0"x7'8"	4'0" wide x 7'8" high	8.50
38-F-1929	4'0"x8'0"	8'0" wide x 8'0" high	7.90	38-F-1932	4'0"x8'0"	4'0" wide x 8'0" high	9.00

NOTE—Net trimmed size of all 4 ft. width as 3'11 3/4" and all 8 ft. heights are 7'11 3/4".

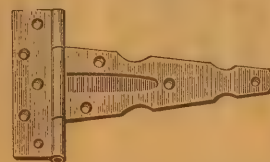


Door Holders

Here is a boon to the garage owner. Thousands used as equipment on "PRESTO-UP" Garages. Prevents smashed fenders, broken doors, no more hooking on posts in the ground, no more slamming in the wind, etc., etc. Doors are released by a single pull of the chain. The door holders automatically catch and hold the doors in place as shown. Weight, 7 lbs. Price is per set (2 holders).

No. 38-F-140. Price.....\$2.00

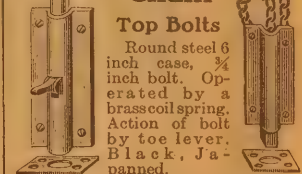
Hinges



Same as used on "PRESTO-UP" Garages. Heavy black japanned, the strap is 10", the butt 7" long by 2" wide. Complete with japanned screws. Weight, 4 1/4 lbs.

No. 38-F-141. Price, per pair.....85c

Foot Bolts and Chain



"PRESTO-UP" CHAIN BOLTS. Round steel 6 inch case, 3/4 inch bolt. Operated by a brass coil spring. Action of bolt by toe lever. Black, Japanned.

No. 38-F-142. Foot and Chain Bolts, weight 1 1/4 pounds. Price, per set.....85c



Impressive Front Entrances

"Colonial" Front Entrance

This entrance has been a favorite with many high-class American homes. You do not have to adhere to the style of door, sidelights or transom shown. You can select any other design shown in this book to fit the openings.

SPECIFICATIONS: The frame is hand made of Clear Oregon Fir, a wood which is best suited for exterior use because it stands up under severe weather changes. The outside casing is $1\frac{1}{2}$ inches by $4\frac{1}{4}$ inches. The sill is $1\frac{1}{2}$ inches by $7\frac{1}{4}$ inches. Jambs are $1\frac{1}{2}$ inches by $5\frac{1}{4}$ inches, rabbeted to receive doors $1\frac{1}{4}$ inches thick and furnished in this manner unless ordered to the contrary.

The workmanship is first class; finely finished and smoothly sanded ready to receive first priming coat of paint. The frame is shipped knocked down, but ready to put together. That part of the frame above the door and sidelights, which includes the transom bar and head jamb, is completely assembled and reaches you in one piece, so there is very little work necessary except to nail the jambs and sill to the head and the frame is complete.

The door illustrated in this Entrance is our "Colonial" 3-0x7-0, $1\frac{1}{4}$, No. 10-F-324, the sidelights each 1-2x7-0, $1\frac{1}{4}$, our No. 10-F-205 glazed Leaded Glass and the transom our No. 10-F-407.

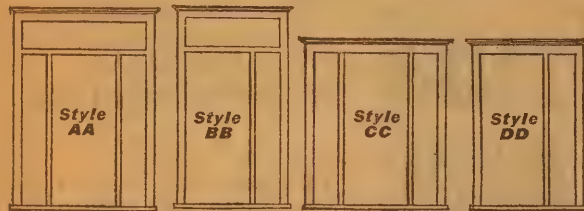
Prices of Frame Only

10-F-360. COLONIAL Entrance frame only. **\$36.70**

Price..... Shipping Weight approximately 160 pounds.

10-F-365. COLONIAL Front Entrance, complete with door, sidelights and transom as shown in cut to the right. **\$80.70**

Price—Hardware not included..... Shipping Weight 290 pounds.



"Englewood" Front Entrance

AT THE LEFT WE ILLUSTRATE A HANDSOME ENTRANCE

Made of the same excellent quality of material and workmanship as the above throughout.

SPECIFICATIONS: The frame is hand made of Clear Oregon Fir, a wood which is best for exterior use because it stands up under severe weather changes. The outside casing is $1\frac{1}{2}$ inches by $4\frac{1}{4}$ inches. The sill is $1\frac{1}{2}$ inches by $7\frac{1}{4}$ inches. Jambs are $1\frac{1}{2}$ inches by $5\frac{1}{4}$ inches, rabbeted to receive doors $1\frac{1}{4}$ inches thick and furnished in this manner unless ordered to the contrary. The frame is shipped knocked down and perfectly fitted ready to nail together.

The door shown in the Entrance to the left is our Shakespear No. 10-F-218, 3-0x7-0, $1\frac{1}{4}$. Clear Red Oak Glazed Bevel Plate Glass, the sidelights each 1-2x7-0, $1\frac{1}{4}$, our No. 10-F-406 Clear Red Oak Glazed Bevel Plate Glass, shown on pages 11 and 17, respectively.

We can furnish this entrance with either one or two sidelights and also with transom over the door and sidelights. See diagram above.

10-F-408. ENGLEWOOD Front Entrance, complete, per specifications above glazed in Clear Double Strength Glass. **\$51.78**

10-F-410. ENGLEWOOD Front Entrance glazed with Clear Bevel Plate as shown in illustration. **\$75.20**

Price..... Shipping Weight approximately 320 pounds.

Prices do not include hardware. For prices on frames only, see below.

FRONT ENTRANCE FRAMES

SPECIFICATIONS: For wood buildings, our frames are made with Crown Mould Cap Head, $1\frac{1}{4}$ inches by $4\frac{1}{4}$ inches outside Casing, $1\frac{1}{4}$ inches by $5\frac{1}{4}$ inches jamb, $1\frac{1}{4}$ inches by $7\frac{1}{4}$ inches Sill. For brick building where the wall is 13 inches thick our frames are made with $1\frac{1}{4}$ inches by $10\frac{1}{4}$ inches jamb, and $1\frac{1}{4}$ inches by 2 inches Brick Moulding.

Prices below cover frames only, with door opening up to 3 feet by 7 feet; Sidelight opening up to 1 foot 2 inches by 7 feet, and transom opening up to 18 inches high. All frames are shipped knocked down ready to put together.

Style of Frame	For Wood Building	Price	For 13-inch Brick Wall	Price
"AA"	10-F-450	\$11.92	10-F-452	\$14.35
"BB"	10-F-470	11.65	10-F-474	13.32
"CC"	10-F-460	10.57	10-F-464	12.37
"DD"	10-F-480	8.95	10-F-484	10.40

Oak Frames for 13-inch Brick Wall, 50 per cent Extra.



Sidelights AND Transoms

Please Read !

Made from "A quality" clear soft pine, and clear red oak.
Sidelight No. 10-F-205 can be furnished with leaded glass like No. 10-F-209. We also furnish sidelight No. 10-F-209 glazed plain (not leaded) either double strength glass or bevel plate.

**White Pine 1 1/2 inches thick
Oak 1 1/4 inches thick**

Number	Wood	Glazing	Size	Price
10-F-205	White Pine	Plain	1- 2x6- 8	\$3.58
		D. S. A.	1- 2x7- 0	3.75
		Like No.	1- 2x6- 8	5.88
		10-F-209	1- 2x7- 0	6.05
10-F-209	White Pine	Plain	1- 2x6- 8	4.12
		D. S. A.	1- 2x7- 0	4.56
		Leaded as Shown	1- 2x6- 8	6.82
			1- 2x7- 0	7.26
10-F-403	Red Oak	Clear	1- 2x6- 8	6.88
		D. S. A.	1- 2x7- 0	7.40
		Beveled Plate	1- 2x6- 8	12.18
			1- 2x7- 0	13.01
10-F-405	Red Oak	Clear	1- 2x6- 8	10.12
		D. S. A.	1- 2x7- 0	10.97
		Beveled Plate	1- 2x6- 8	15.50
			1- 2x7- 0	16.33

Sidelight No. 10-F-405 furnished in white pine 1 1/2 thick to match Whittier door at \$2.00 less than oak price.

Sidelights can be furnished to match Virginia, Carolina and Maryland Doors. Write for prices.



10-F-205



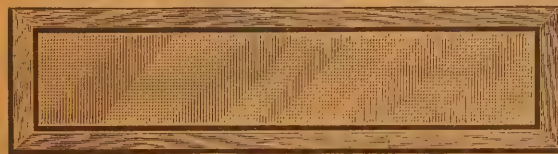
10-F-209



10-F-403



10-F-405



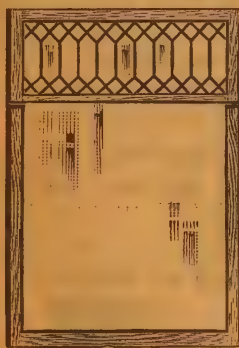
Transom No. 10-F-401

Transom No. 10-F-401 can be furnished leaded to match sidelights No. 10-F-209. Transom No. 10-F-407 can be furnished glazed leaded beveled plate. Write for prices.



Transom No. 10-F-407

SIZES 1 1/2 Inch Thick	10-F-401				10-F-407	
	White Pine		Oak or Birch		Leaded Crystal	Glazed Clear
	Gl. 1 Lt. D. S.	Gl. 2 Lt. D. S.	Gl. 1 Lt. D. S.	Gl. 2 Lt. D. S.	White Pine	D. S. Glass
4 ft. 6 in. wide, up to 1 ft. 6 in. high.....	\$3.14	\$3.34	\$4.88	\$5.17	\$18.10	\$13.44
4 ft. 8 in. wide, up to 1 ft. 6 in. high.....	3.26	3.40	4.98	5.29	18.86	13.47
6 ft. 0 in. wide, up to 1 ft. 6 in. high.....	5.46	5.74	6.14	6.44	22.19	16.73
6 ft. 4 in. wide, up to 1 ft. 6 in. high.....	5.14	4.58	6.88	7.18	22.94	17.53



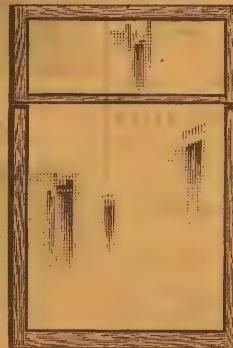
Crystal



Queen Anne

Cottage Windows

Choicest designs in modern cottage windows to match all styles of architecture. Crystal design has leaded glass top light. Aristocrat design has leaded bevel plate glass top light. Plain View and Queen Anne designs are glazed with clear double strength glass.



Plain View



Aristocrat

Glass Size, Bottom Sash, Width, Height	Glass Size, Top Sash, Width, Height	Outside Measure Width, Height	"Crystal" 10-F-66 Price	"Queen Anne" 10-F-68 Price	"Plain View" 10-F-64 Price	"Aristocrat" 10-F-70 Price	Shipping Weight, Pounds
40 in. x 42 in.	40 in. x 14 in.	3 ft. 8 in. x 5 ft. 2 in.	\$ 7.84	\$5.29	\$4.79	\$13.81	94
40 in. x 40 in.	40 in. x 16 in.	3 ft. 8 in. x 5 ft. 2 in.	8.02	4.89	4.39	14.62	96
40 in. x 46 in.	40 in. x 14 in.	3 ft. 8 in. x 5 ft. 6 in.	8.18	5.55	5.05	14.06	100
44 in. x 40 in.	44 in. x 16 in.	4 ft. 0 in. x 5 ft. 2 in.	9.30	5.78	5.28	16.57	104
44 in. x 44 in.	44 in. x 16 in.	4 ft. 0 in. x 5 ft. 6 in.	9.30	6.16	5.98	16.57	110
44 in. x 48 in.	44 in. x 16 in.	4 ft. 0 in. x 5 ft. 10 in.	10.17	7.07	6.98	17.85	125

Sheathing Paper and Tarred Felt



A Sized Sheathing Paper for ordinary building purposes, made by special process, faced on both sides, thoroughly rosin-sized, making it damp-proof and vermin proof. 36 inches wide, containing about 500 sq. ft.

No.	Weight	Price per Roll
10-F-10X.	20 lbs	\$.78
10-F-11X.	30 lbs.	1.39
10-F-12X.	40 lbs.	1.68

Used for roofing, sheathing and general building purposes. Made of the best grade of wool felt, carefully selected, thoroughly saturated with distilled tar. Warranted to unroll freely without sticking. Approx. wt. 60 lbs. Rolls 32 inches wide.

10-F-13.	Heavy grade No. 1, 225 Sq. Ft. to roll.	\$2.25
10-F-14.	Medium grade No. 2, 450 Sq. Ft. to roll.	\$2.40

Made of the very finest selected grade of wool felt. It is used to deaden sound between floors and walls; used under floors, as it adds to the warmth. Rolls 36 inches wide.

10-F-15.	Grade No. 1, 450 Sq. Ft. to roll.	\$5.78
10-F-16.	Grade No. 2, 450 Sq. Ft. to roll.	\$3.85

Ideal sheathing paper and also used under metal and slate roofs. It can be used in place of red rosin or any other sheathing paper. Put up in rolls 36 inches wide, each roll containing 500 square feet. Weight, per roll, approximately 35 lbs.

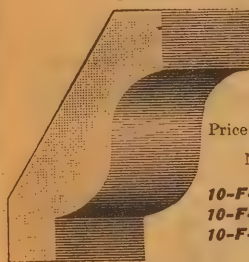
10-F-18X.	Price per roll.	\$1.39
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Best grade of blue Plaster Board manufactured. Strong and tough. Used on clap boards for sheathing and on walls in place of plaster; tacked to the studding and wall paper can be placed over it. Put up in rolls 36 inches wide.

10-F-19.	Rolls containing 250 sq. ft., weight 30 lbs.	\$1.75
10-F-17.	Rolls containing 500 sq. ft., weight 60 lbs.	\$3.25

Clear Fir Outside Mouldings!

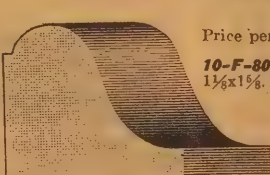
Crown Mould



Price per 100 lineal feet.

No.	Size	Price Fir
10-F-8000	$\frac{3}{4} \times 3 \frac{1}{4}$	\$2.80
10-F-8006	$\frac{3}{4} \times 4 \frac{1}{4}$	3.80
10-F-8008	$\frac{3}{4} \times 2 \frac{1}{4}$	2.00

Brick or Stone Mould



Price per 100 lineal feet.

10-F-8038.	Size $1 \frac{1}{2} \times 1 \frac{1}{2}$.	Price Fir \$2.75
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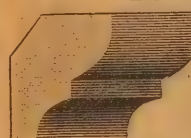
Band Moulding



Price per 100 lineal feet.

10-F-8178.	Size $\frac{3}{4} \times 2$.	Price.... \$1.30
10-F-8180.	Size $\frac{3}{4} \times 2 \frac{1}{2}$.	Price.... 1.60

Bed Mould



Price per 100 lineal feet.

10-F-8016	Size $\frac{3}{4} \times 1 \frac{1}{2}$.	Price Fir \$1.15
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Cove Mould



Price per 100 lineal feet.

10-F-8060.	Size $\frac{3}{4} \times \frac{3}{4}$.	Price Fir \$0.60
10-F-8061.	Size $\frac{3}{4} \times 1 \frac{1}{2}$.	Price Fir 0.75

O. G. Stops



Price per 100 lineal feet.

10-F-8083.	Size $\frac{3}{4} \times 1 \frac{1}{4}$.	Price.... \$0.60
10-F-8084.	Size $\frac{3}{4} \times 1 \frac{1}{2}$.	Price.... .68
10-F-8085.	Size $\frac{3}{4} \times 1 \frac{3}{4}$.	Price.... .80
10-F-8095.	Size $1 \frac{1}{2} \times 1 \frac{1}{2}$.	Price.... 1.15
10-F-8096.	Size $1 \frac{1}{2} \times 1 \frac{3}{4}$.	Price.... .90

Sprung Cove



Price per 100 lineal feet.

10-F-8024.	Size $\frac{3}{4} \times 1 \frac{1}{2}$.	Price Fir \$1.15
10-F-8029.	Size $\frac{3}{4} \times 3 \frac{1}{4}$.	Price.... Fir \$2.80

Quarter Round



Price per 100 feet.

10-F-8065.	Size $\frac{3}{4} \times \frac{3}{4}$.	Price Fir \$0.60
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Solid Bed Mould



Price per 100 lineal feet.

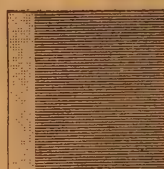
10-F-8036.	Size $\frac{3}{4} \times 1 \frac{1}{2}$.	Price Fir \$1.15
10-F-8037.	Size $1 \frac{1}{2} \times 1 \frac{1}{2}$.	Price Fir \$2.75

Nosing Mould



Price per 100 lineal feet. 10-F-8125. Size $1 \frac{1}{2} \times 2 \frac{1}{4}$ for $1 \frac{1}{2}$ in. steps. Price Fir \$4.10

Lattice Strips



Price per 100 lineal feet.

10-F-8281.	Size $\frac{3}{8} \times 1 \frac{3}{4}$.	Price.... Fir \$0.68
10-F-8282.	Size $\frac{3}{8} \times 1 \frac{1}{2}$.	Price.... Fir \$0.80

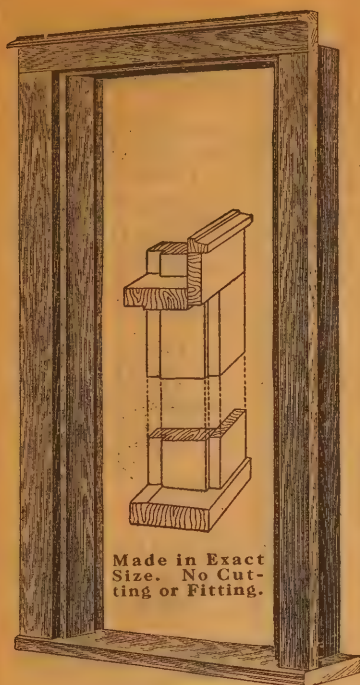
Watertable or Drip cap



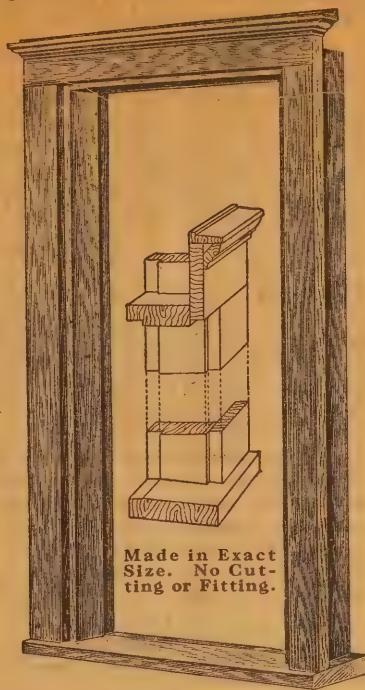
Price per 100 lineal feet.

10-F-8283.	Size $1 \frac{1}{2} \times 1 \frac{1}{2}$.	Price.... \$2.75
10-F-8284.	Size $1 \frac{1}{2} \times 2$.	Price.... 3.05
10-F-8285.	Size $1 \frac{1}{2} \times 2 \frac{1}{2}$.	Price.... 3.70
10-F-8286.	Size $1 \frac{1}{2} \times 3$.	Price.... 4.35

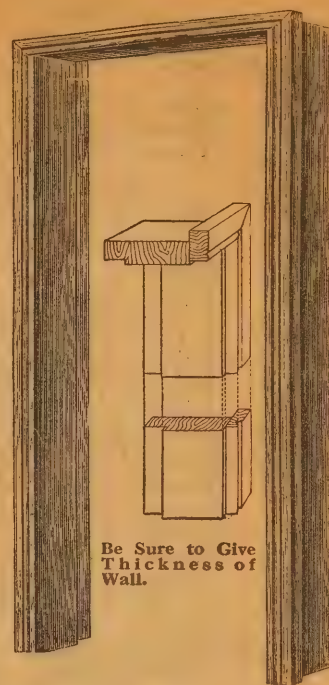
CLEAR FIR OUTSIDE DOOR FRAMES AND FRAME MATERIAL



Made in Exact
Size. No Cut-
ting or Fitting.



Made in Exact
Size. No Cut-
ting or Fitting.



Be Sure to Give
Thickness of
Wall.

Door frames in stock for immediate delivery made of selected clear kiln dried fir. Shipped taken apart and carefully bundled to avoid damage in delivery. Rabbeted for $1\frac{3}{8}$ " thickness door unless otherwise specified when ordered. Weight each frame, about 65 lbs.

Drip Cap Door Frames

$1\frac{1}{2}$ Inch Outside Casing

Includes everything complete as shown; outside casing, $1\frac{1}{2} \times 4\frac{1}{4}$ "; solid sill, $1\frac{1}{2} \times 7\frac{1}{4}$ "; rabbeted jamb, $1\frac{1}{2} \times 5\frac{1}{4}$ inches.

No. 10-F-99. Outside door frames for 2x4 studding, with solid clear Fir sills, any size up to and including 3 ft. by 7 ft. rabbeted for doors $1\frac{3}{8}$ inches in thickness or $1\frac{3}{4}$ inches in thickness. **\$2.89**

No. 10-F-413. Plain drip cap door frame with transom head, not exceeding 2 feet in height. **\$3.69**

Price. **\$3.69**
Oak sills for any of above frames, \$1.00 per frame extra.

Crown Mould Cap Door Frames

$1\frac{1}{2}$ Inch Outside Casing

This frame has $1\frac{1}{2} \times 3$ inch Drip Cap, $1\frac{1}{2} \times 5\frac{1}{4}$ inch head casing, $1\frac{1}{2} \times 4\frac{1}{4}$ inch outside casing, $2\frac{1}{4}$ inch crown moulding, $1\frac{1}{2} \times 5\frac{1}{4}$ inch jamb, rabbeted to suit thickness of door, solid sill $1\frac{1}{2} \times 7\frac{1}{4}$.

No. 10-F-103. Crown mould cap outside door frame for frame buildings with 2x4 studding. For door 3 ft. x 7 ft. or smaller opening. **\$3.35**

Price. **\$3.35**
No. 10-F-414. Crown mould cap door frame with transom head, not exceeding 2 ft. in height. Price. **\$4.15**

Oak sills for any of above frames, \$1.00 per frame extra.

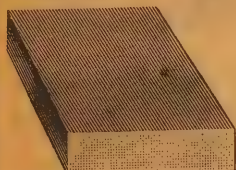
Cement Block, Stone or Brick Wall Door Frames

This frame has a $1\frac{1}{2} \times 2$ -inch clear brick moulding. No sill furnished with this frame.

No. 10-F-106-A. For 9-inch Brick Wall $1\frac{1}{2} \times 5\frac{1}{4}$ " Jamb.
2 ft. 6 in. x 6 ft. 6 in. **\$2.28**
2 ft. 8 in. x 6 ft. 8 in. **2.34**
3 ft. x 7 ft. **2.42**

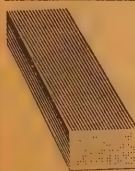
No. 10-F-106. For 13-inch Brick Wall $1\frac{1}{2} \times 9\frac{1}{2}$ " Jamb.
2 ft. 6 in. x 6 ft. 6 in. **\$2.91**
2 ft. 8 in. x 6 ft. 8 in. **2.97**
3 ft. x 7 ft. **3.05**

No. 10-F-415. Plank door frame with transom head, not exceeding 2 feet in height. **80c**
Add to price above.



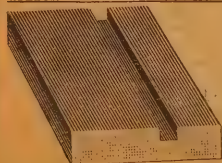
Outside Casing

10-F-8429 $\frac{1}{2}$ "
Price per 100 lineal feet. Size $1\frac{1}{2} \times 4\frac{1}{4}$ ". Clear Fir. **\$5.85**



Blindstop

10-F-8430. Per 100 lineal feet. Clear Fir. Size $\frac{3}{4} \times 1\frac{3}{8}$ ". Price. **\$1.30**

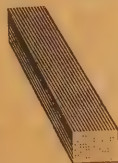


Pulley Stile

10-F-8431 $\frac{1}{2}$ ". Plowed parting stop for $1\frac{1}{2}$ in. windows. Size $\frac{3}{4} \times 4\frac{1}{2}$ ". Price per 100 lineal feet. Clear Fir. **\$4.30**

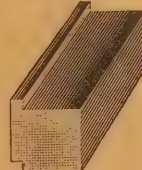
WINDOW FRAME STOCK Clear Kiln Dried Fir

Many carpenters and home builders sometimes prefer to make their own special frames. To meet this demand, we present a complete line of window frame stock which will enable you to make your own frames at lowest possible cost. See preceding pages for other mouldings.



Parting Stop

10-F-8432. Per 100 lineal feet. Clear Fir. $\frac{1}{2} \times \frac{3}{4}$ ". Price. **85c**

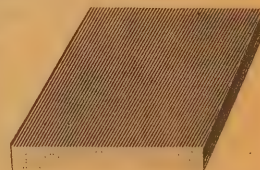


Sill Course

10-F-1672. Size $1\frac{1}{2} \times 1\frac{1}{2}$ inches. Price per 100 lineal feet. Clear Fir. **\$3.60**

Subsill

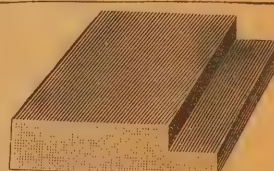
10-F-8440 $\frac{1}{2}$ ". Edges beveled. Size $\frac{3}{4} \times 5\frac{1}{4}$ ". Per 100 lineal feet. Clear Fir. **\$5.00**



Jamb Stock

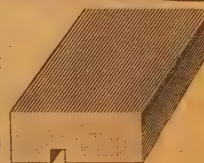
No. 10-F-8442.

Size $1\frac{1}{2}$ in. x $5\frac{1}{4}$ inch rabbeted, for $1\frac{1}{2}$ in. or $1\frac{3}{4}$ in. doors, clear fir. Per 100 lineal feet. **\$9.00**



Main Sill

10-F-8439 $\frac{1}{2}$ ". Beveled edges and rabbeted for siding. Size $1\frac{1}{2} \times 3\frac{3}{8}$ ". Sound solid Clear Fir stock. Price per 100 lineal feet. **\$6.65**



Window Frames for Wood Frame Buildings

Clear Kiln Dried Fir

Ball Bearing Pulleys

Our Window Frames are of the highest grade that is manufactured. These frames are for frame buildings, having standard 2x4 studding, siding, sheathing and plaster. All frames are carried in stock in the sizes listed below, all machined, ready to put together, no further cutting or fitting is necessary. All that is necessary after receiving our frames is to nail them together and any carpenter can put any of our frames together in ten or fifteen minutes. Frames are shipped knocked down, securely bundled to avoid damage in transit. We carry a complete stock in all sizes for immediate shipment.

PLAIN DRIP CAP Window Frames

Illustration at the left shows our Plain Drip Cap Window Frames, which are furnished complete as shown with pulleys. Specifications: Outside casing 1½x4½ inches, pulley sides and head jambs ¾x5¼ inches over sill, including blind stop; plowed for parting stop. Two member sill, main section 1½x3¾ inches, sub-section ¾x5¼ inches, drip cap 1½x1½ inches. See insert section for construction of frames.

CROWN MOULD CAP Window Frames

Illustration to the right shows our Crown Mould Cap Window Frames, which are furnished complete as shown, with pulleys. Specifications are the same as our Drip Cap Window Frame to the left, with exception that Head Casing is 5¼ inches wide to allow for crown mould cap. Size of crown moulding is ¾x2¼ inches, size of drip cap 1½x3 inches. See insert section for construction of frames.

We can furnish sizes not listed at the price of the next larger size shown

MULLION AND TRIPLE FRAMES

Mullion or Double Frames are double the price of regular single frames of the same window opening size.

Triple Frames are three times the price of regular single frames of the same window opening size.

A window frame 28x28 2 lights is considered an average size and weighs approximately 40 pounds. Other frames will weigh more or less in proportion, according to sizes.

PRICES OF FRAMES FOR CHECK RAIL WINDOWS FOR WOOD FRAME BUILDINGS

Frame for Windows Containing TWO LIGHTS of Glass				DRIP CAP		CROWN MOULD CAP			
Glass Sizes, Prices Cover Frame Only	Outside Window Measurement, Inside Opening of Frame		1½ inch Casing including Pulleys 10-F-458	1½ inch Casing including Pulleys 10-F-459	Glass Sizes, Prices Cover Frame Only	Outside Window Measurement, Inside Opening of Frame		1½ inch Casing including Pulleys 10-F-458	1½ inch Casing including Pulleys 10-F-459
	ft. in.	ft. in.				ft. in.	ft. in.		
12x20	1-4½	x 3-10	\$1.58	\$1.88	10x20	2-1	x 3-10	\$1.82	\$2.12
12x24	1-4½	x 4-6	1.76	2.06	10x24	2-1	x 4-6	1.94	2.24
12x30	1-4½	x 5-2	1.98	2.28					
14x20	1-6½	x 3-10	1.63	1.93	12x20	2-5	x 3-10	1.91	2.21
14x24	1-6½	x 4-6	1.81	2.11	12x22	2-5	x 4-2	1.99	2.29
14x28	1-6½	x 5-2	2.00	2.30	12x24	2-5	x 4-6	2.07	2.37
					12x26	2-5	x 4-10	2.15	2.45
16x16	1-8½	x 3-2	1.54	1.84	12x28	2-5	x 5-2	2.21	2.51
16x20	1-8½	x 3-10	1.70	2.00	12x30	2-5	x 5-6	2.29	2.59
16x24	1-8½	x 4-6	1.86	2.16					
18x20	1-10½	x 3-10	1.75	2.05	14x24	2-9	x 4-6	2.15	2.45
18x24	1-10½	x 4-6	1.89	2.19	14x26	2-9	x 4-10	2.23	2.53
18x28	1-10½	x 5-2	2.05	2.35	14x28	2-9	x 5-2	2.29	2.59
					14x32	2-9	x 5-10	2.47	2.77
20x20	2-0½	x 3-10	1.78	2.08	15x30	2-11	x 5-6	2.42	2.72
20x24	2-0½	x 4-6	1.94	2.24	15x32	2-11	x 5-10	2.50	2.80
20x26	2-0½	x 4-10	2.02	2.32	15x36	2-11	x 6-6	2.64	2.94
20x28	2-0½	x 5-2	2.08	2.38					
22x22	2-2½	x 4-2	1.89	2.19					
22x24	2-2½	x 4-6	1.97	2.27					
22x28	2-2½	x 5-2	2.13	2.43					
24x20	2-4½	x 3-10	1.86	2.16					
24x24	2-4½	x 4-6	2.01	2.31					
24x26	2-4½	x 4-10	2.06	2.36					
24x28	2-4½	x 5-2	2.16	2.46					
24x30	2-4½	x 5-6	2.24	2.54					
24x36	2-4½	x 6-6	2.48	2.78					
26x20	2-6½	x 3-10	1.91	2.21					
26x24	2-6½	x 4-6	2.07	2.37					
26x26	2-6½	x 4-10	2.14	2.44					
26x28	2-6½	x 5-2	2.21	2.51					
26x30	2-6½	x 5-6	2.25	2.55					
28x24	2-8½	x 4-6	2.10	2.40					
28x26	2-8½	x 4-10	2.18	2.48					
28x28	2-8½	x 5-2	2.26	2.56					
28x30	2-8½	x 5-6	2.34	2.64					
28x36	2-8½	x 6-6	2.56	2.86					
30x24	2-10½	x 4-6	2.15	2.45					
30x26	2-10½	x 5-2	2.29	2.59					
30x30	2-10½	x 5-6	2.37	2.67					
30x32	2-10½	x 5-10	2.47	2.77					
30x36	2-10½	x 6-6	2.61	2.91					
32x24	3-0½	x 4-6	2.18	2.48					
32x26	3-0½	x 5-2	2.34	2.64					
32x30	3-0½	x 5-6	2.42	2.72					
32x32	3-0½	x 5-10	2.50	2.80					
36x30	3-4½	x 5-6	2.51	2.81					
40x32	3-8½	x 5-10	2.66	2.96					
44x32	4-0½	x 5-10	2.74	3.04					

Frame for Windows Containing FOUR LIGHTS of Glass				DRIP CAP		CROWN MOULD CAP			
Glass Sizes, Prices Cover Frame Only	Outside Window Measurement, Inside Opening of Frame		1½ inch Casing including Pulleys 10-F-458	1½ inch Casing including Pulleys 10-F-459	Glass Sizes, Prices Cover Frame Only	Outside Window Measurement, Inside Opening of Frame		1½ inch Casing including Pulleys 10-F-458	1½ inch Casing including Pulleys 10-F-459
	ft. in.	ft. in.				ft. in.	ft. in.		
10x20	2-1	x 3-10	\$1.82	\$2.12	12x20	2-5	x 3-10	1.91	2.21
10x24	2-1	x 4-6	1.94	2.24	12x22	2-5	x 4-2	1.99	2.29
					12x24	2-5	x 4-6	2.07	2.37
12x20	2-5	x 3-10	1.91	2.21	12x26	2-5	x 4-10	2.15	2.45
12x22	2-5	x 4-2	1.99	2.29	12x28	2-5	x 5-2	2.21	2.51
12x24	2-5	x 4-6	2.07	2.37	12x30	2-5	x 5-6	2.29	2.59
12x26	2-5	x 4-10	2.15	2.45					
12x28	2-5	x 5-2	2.21	2.51	14x24	2-9	x 4-6	2.15	2.45
12x30	2-5	x 5-6	2.29	2.59	14x26	2-9	x 4-10	2.23	2.53
					14x28	2-9	x 5-2	2.29	2.59
14x24	2-9	x 4-6	2.15	2.45	14x32	2-9	x 5-10	2.47	2.77
14x26	2-9	x 4-10	2.23	2.53	15x30	2-11	x 5-6	2.42	2.72
14x28	2-9	x 5-2	2.29	2.59	15x32	2-11	x 5-10	2.50	2.80
14x32	2-9	x 5-10	2.47	2.77	15x36	2-11	x 6-6	2.64	2.94
15x30	2-11	x 5-6	2.42	2.72					
15x32	2-11	x 5-10	2.50	2.80					
15x36	2-11	x 6-6	2.64	2.94					

Frame for Windows Containing EIGHT LIGHTS of Glass				DRIP CAP ^P		CROWN MOULD CAP	
8x10	1-9	x 3-10		10-F-458	10-F-459		
9x12	1-11	x 4-6		1.75	2.24		
10x12	2-1	x 4-6		1.99	2.29		
10x16	2-1	x 5-10		2.29	2.59		
12x14	2-5	x 5-2		2.21	2.51		
14x16	2-9	x 5-10		2.29	2.59		
14x20	2-9	x 7-2		3.04	3.34		

Frame for Windows Containing TWELVE LIGHTS of Glass				DRIP CAP		CROWN MOULD CAP	
8x10	2-4½	x 3-10		10-F-458	10-F-459		
9x12	2-7½	x 4-6		2.10	2.40		
10x12	2-10½	x 4-6		2.18	2.48		
10x14	2-10½	x 5-2		2.34	2.64		
10x16	2-10½	x 5-10		2.50	2.80		
12x14	3-4½	x 5-2		2.51	2.81		
12x20	3-4½	x 7-2		2.80	3.10		

CLEAR FIR WINDOW FRAMES

BALL BEARING PULLEYS

Window Frames for Solid Brick, Stone or Cement Block Buildings

are illustrated at the left. These frames are known as Box Window Frames, made for a regular 9 inch wall, but can be used for 13 inch wall by using an extension jamb. Specifications: This frame has $1\frac{1}{2}$ x2 inch brick mould, $\frac{3}{4}$ x5 inch blind stop, $\frac{3}{4}$ x4 $\frac{1}{2}$ inch pulley stile, $\frac{1}{2}$ x $\frac{3}{4}$ inch parting stop, $\frac{3}{4}$ x3 $\frac{1}{2}$ inch rabbeted box lining and $\frac{3}{4}$ x4 $\frac{1}{2}$ inch back box lining. All exposed lumber will be clear face stock, carefully selected and thoroughly seasoned. The box linings are made from good, sound quality lumber.

Window Frames for Brick Veneer Buildings

are illustrated at right. This frame is used for walls of 2x4 studding, veneered with a layer of brick, and they are made in the same manner as the frame for a brick or stone wall, with the exception that the box lining is omitted, not being required. All exposed lumber is clear face stock.

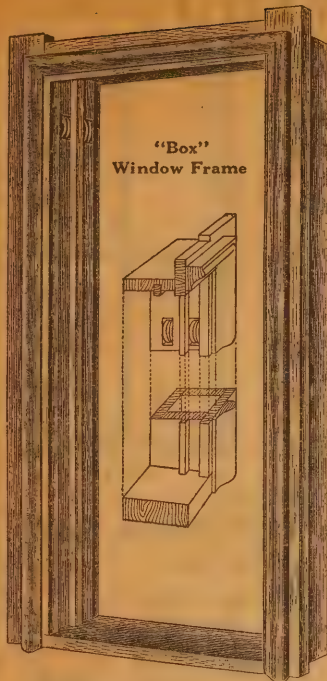
Specifications: Blind stop, $\frac{3}{4}$ x4 $\frac{1}{2}$ inches; pulley stile, $\frac{3}{4}$ x5 $\frac{1}{2}$ inches, making width of jamb 5 $\frac{1}{2}$ inches, including blind stop. Brick mould, $1\frac{1}{2}$ x2 inches, parting stop $\frac{1}{2}$ x $\frac{3}{4}$ inch. Sills made from 2x8 stock.

All our frames are made in exact sizes. Every piece is cut to fit, ready to put together, easily assembled. We ship them knocked down to avoid damage in transit.

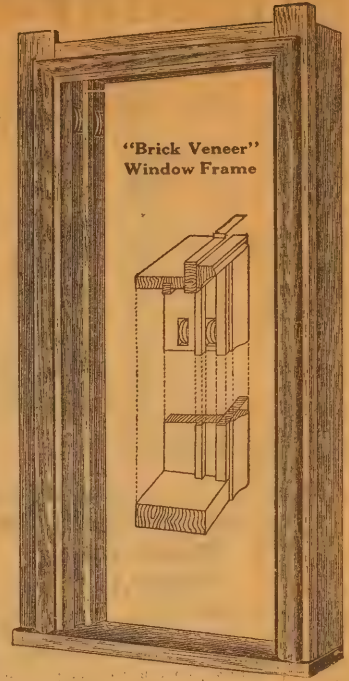
Remember when consulting the table below that intermediate sizes are furnished at the price of the next larger size. When ordering, give size of window and frame will be made to fit.

If box Frames are wanted for brick arch, be sure to specify and allow 15c net extra for each frame.

A box window frame 28x28, 2 lights, is considered an average size and weighs approximately 48 pounds. Other frames will weigh more or less in proportion, according to sizes.



"Box"
Window Frame



"Brick Veneer"
Window Frame

Box Window Frame No. 10-F-108

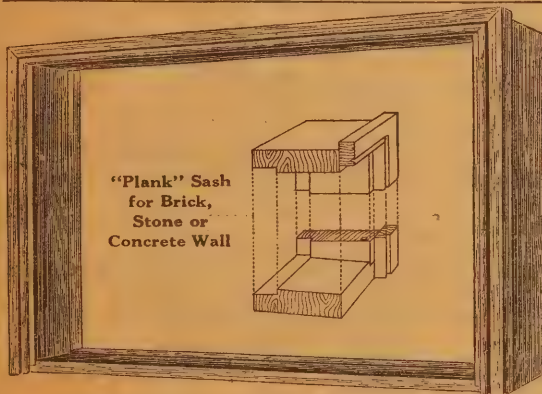
Brick Veneer Frame No. 10-F-467

Prices of Box Window Frames Order by Size and Number—Prices Include Pulleys

Width	Height	Price Each Frame 10-F-108
2 feet 2 inch.....	4 feet 6 inch or smaller	\$4.86
2 feet 6 inch.....	5 feet 2 inch or smaller	4.95
2 feet 8 inch.....	5 feet 10 inch or smaller	5.17
3 feet 4 inch.....	5 feet 2 inch or smaller	5.44
4 feet.....	5 feet 10 inch or smaller	5.58
4 feet 4 inch.....	6 feet 6 inch or smaller	5.71

Prices of Brick Veneer Frames Always Give Width First—Prices Include Pulleys

Width	Height	Price Each Frame 10-F-467
2 feet 2 inch.....	4 feet 6 inch or smaller	\$3.96
2 feet 6 inch.....	5 feet 2 inch or smaller	4.14
2 feet 8 inch.....	5 feet 10 inch or smaller	4.35
3 feet 4 inch.....	5 feet 2 inch or smaller	4.59
4 feet.....	5 feet 10 inch or smaller	4.72
4 feet 4 inch.....	6 feet 6 inch or smaller	4.86



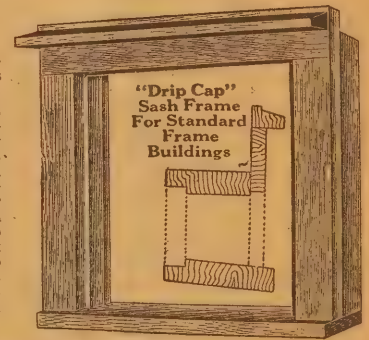
"Plank" Sash
for Brick,
Stone or
Concrete Wall

Sash Frames

For Single Stationary Sash

These frames are used in gables, dormers, stair landings and vestibules or any place a "swing in" sash is wanted.

Sash frame per illustration to right is made of the same high grade material as all the other window and door frames, suitable for frame buildings where 2x4 studding is used with lath and plaster on inside and sheathing on the outside, making jamb 5 $\frac{1}{2}$ inches over all. Furnished drip cap or crowa mould cap, just as ordered. Also made from 2x6 or 2x10 plank for brick or stone building. See illustration to the left. Be careful to order correct style, stating in your order for what kind of a building same will be used and mention catalog number.



"Drip Cap"
Sash Frame
For Standard
Frame
Buildings

Cellar Sash Frame. No. 10-F-107

Plank cellar sash frames are made with a $1\frac{3}{4}$ x5 $\frac{1}{4}$ inch jamb. $1\frac{1}{2}$ x2 inch clear brick moulding. Knocked down, bundled for shipment. Made of clear Western Fir.

10-F-107. Plank cellar sash frame, size 2 feet 10 inches by 1 foot 9 inches. Price..... \$1.45

Other sizes priced in next column.

Shipping Weight approximately 30 pounds.

Mullion Frames

Mullion or Twin or Double Window Frames, just double price of regular frames of the corresponding size.

Triple Window Frames where three windows are used side by side, price will be just three times the cost of regular window frame as listed on this page for corresponding sizes.

MULLION or TWIN or DOUBLE SASH FRAMES or CASEMENT SASH FRAMES, just double prices as listed.

No.	Description	Price for Sash Opening 2-10x 2-11 or Smaller	Price for Sash Opening 3-4x 3-9 or Smaller	Price for Sash Opening 4-4x 5-10 or Smaller
10-F-476.	Drip Cap for 2x4 Studding.....	\$2.02	\$2.43	\$3.28
10-F-477.	Crown Cap for 2x4 Studding.....	2.34	2.79	3.69
10-F-107.	2x6 Jamb for 9" brick or stone wall.	2.43	\$2.74	3.60
10-F-479.	2x10 Jamb for 13" brick or stone wall.	2.79	3.06	3.64

Shipping Weight approximately 30 pounds

Casement Sash Frames With Special Water-Tight Sill

These frames are made specially for casement sash, or French windows, and can be made for either swing in or swing out style of sash. When ordering you must specify which way you want your sash to swing.

Be careful to order correctly, stating whether for frame or for brick building and thickness of wall.

10-F-438. Casement Sash Frame for frame building, jamb not over 5 $\frac{1}{2}$ inches, special sill construction, for opening sizes up to 3'8"x5'6", plain drip cap. Price, each..... \$3.78

10-F-489. Casement Sash Frame, same as above except Crown Mould Cap. Price, each..... \$3.87

10-F-490. Casement Sash Frame, same as above except made from 2x6 plank jamb with brick moulding for 9" brick or cement buildings, for opening sizes up to 3'8"x5'6". Price, each..... \$3.96

Standard Check Rail Windows



10-F-71

Clear White Pine
1 3/8 Inches Thick

These windows are manufactured in our own shops. They are of clear white pine, kiln dried, mortised, pinned and sanded, glass extra strong tacked, and puttied with high quality putty.

The term "window" means two sash — upper and lower.

All check rail windows are plowed and bored for sash cord and can be used either with or without weights. The check is the beveled rail where the two sash come together, as is illustrated in cross section cut shown at left.



When ordering be sure to give width first.

Price includes both top and bottom sash.

Weight—A window 28x28 2 lights check rail 1 3/8 inches thick is considered an average size and weighs 28 pounds, shipping weight. Other sizes will weigh more or less in proportion to sizes.



10-F-72

Two Light Check Rail Windows

1 3/8 inches Thick
10-F-71

Size of Glass	Price per Window Glazed	Outside Measure Width Height ft. in. ft. in.	Size of Sash Weights Required Lbs.
12x16	\$0.98	1- 4 1/4x3- 2	3
12x20	1.16	1- 4 1/4x3-10	3
12x24	1.32	1- 4 1/4x4- 6	3 1/2
12x26	1.38	1- 4 1/4x4-10	3 1/2
14x20	1.24	1- 6 1/4x3-10	3
14x24	1.41	1- 6 1/4x4- 6	3 1/2
14x26	1.46	1- 6 1/4x4-10	3 1/2
14x28	1.65	1- 6 1/4x5- 2	4
14x30	1.73	1- 6 1/4x5- 6	4 1/2
16x16	1.22	1- 8 1/4x3- 2	8
16x18	1.28	1- 8 1/4x3- 6	3
16x20	1.35	1- 8 1/4x3-10	3
16x22	1.44	1- 8 1/4x4- 2	3 1/2
16x24	1.49	1- 8 1/4x4- 6	3 1/2
16x26	1.68	1- 8 1/4x4-10	4
16x28	1.76	1- 8 1/4x5- 2	4
16x30	1.83	1- 8 1/4x5- 6	4 1/2
18x18	1.37	1-10 1/4x3- 6	3 1/2
18x20	1.44	1-10 1/4x3-10	3 1/2
18x22	1.62	1-10 1/4x4- 2	3 1/2
18x24	1.68	1-10 1/4x4- 6	4
18x26	1.77	1-10 1/4x4-10	4 1/2
18x28	1.85	1-10 1/4x5- 2	4 1/2
18x30	1.98	1-10 1/4x5- 6	5
20x20	1.49	2- 0 1/2x3-10	4
20x22	1.68	2- 0 1/2x4- 2	4
20x24	1.69	2- 0 1/2x4- 6	4 1/2
20x26	1.77	2- 0 1/2x4-10	5
20x28	1.85	2- 0 1/2x5- 2	5 1/2
20x30	2.03	2- 0 1/2x5- 6	5 1/2
20x32	2.25	2- 0 1/2x5-10	6
22x20	1.64	2- 2 1/4x3-10	4
22x22	1.80	2- 2 1/4x4- 2	4 1/2
22x24	1.81	2- 2 1/4x4- 6	5
22x26	1.89	2- 2 1/4x4-10	5
22x28	2.01	2- 2 1/4x5- 2	5 1/2
22x30	2.16	2- 2 1/4x5- 6	5 1/2
22x32	2.39	2- 2 1/4x5-10	6

10-F-71—Continued

Size of Glass	Price per Window Glazed	Outside Measure Width Height ft. in. ft. in.	Size of Sash Weights Required Lbs.
24x16	\$1.40	2- 4 1/4x3- 2	3 1/2
24x18	1.58	2- 4 1/4x3- 6	4
24x20	1.64	2- 4 1/4x3-10	4 1/2
24x22	1.80	2- 4 1/4x4- 2	5
24x24	1.86	2- 4 1/4x4- 6	5
24x26	1.89	2- 4 1/4x4-10	5 1/2
24x28	2.00	2- 4 1/4x5- 2	6
24x30	2.16	2- 4 1/4x5- 6	6 1/2
24x32	2.48	2- 4 1/4x5-10	6 1/2
24x36	2.72	2- 4 1/4x6- 6	7
26x16	1.68	2- 6 1/4x3- 2	4
26x20	1.77	2- 6 1/4x3-10	5
26x22	1.92	2- 6 1/4x4- 2	5
26x24	1.93	2- 6 1/4x4- 6	5 1/2
26x26	2.01	2- 6 1/4x4-10	6
26x28	2.21	2- 6 1/4x5- 2	6
26x30	2.39	2- 6 1/4x5- 6	6 1/2
26x32	2.63	2- 6 1/4x5-10	7
28x24	2.10	2- 8 1/4x4- 6	6
28x26	2.22	2- 8 1/4x4-10	6
28x28	2.33	2- 8 1/4x5- 2	6 1/2
28x30	2.39	2- 8 1/4x5- 6	7
28x32	2.88	2- 8 1/4x5-10	7 1/2
28x36	3.24	2- 8 1/4x6- 6	8
30x24	2.16	2-10 1/4x4- 6	6 1/2
30x26	2.39	2-10 1/4x4-10	6 1/2
30x28	2.42	2-10 1/4x5- 2	7
30x30	2.72	2-10 1/4x5- 6	7 1/2
30x32	2.99	2-10 1/4x5-10	8
30x34	3.24	2-10 1/4x6- 2	8 1/2
30x36	3.27	2-10 1/4x6- 6	9
32x24	2.54	3- 0 1/2x4- 6	6 1/2
32x26	2.57	3- 0 1/2x4-10	7
32x28	2.88	3- 0 1/2x5- 2	7 1/2
32x30	2.99	3- 0 1/2x5- 6	8
32x32	3.24	3- 0 1/2x5-10	8
36x24	2.64	3- 4 1/4x4- 6	7
36x26	2.97	3- 4 1/4x4-10	8
36x28	3.18	3- 4 1/4x5- 2	8
36x30	3.27	3- 4 1/4x5- 6	9
40x28	3.55	3- 8 1/4x5- 2	9

Four Light Check Rail Windows

1 3/8 inches thick
10-F-72

Size of Glass	Price per Window Glazed	Outside Measure Width Height ft. in. ft. in.	Size of Sash Weights Required Lbs.
10x20	\$1.65	2- 1x3-10	4
10x22	1.73	2- 1x4- 2	4
10x24	1.74	2- 1x4- 6	4 1/2
10x26	1.94	2- 1x4-10	4 1/2
10x28	1.95	2- 1x5- 2	5
10x30	2.33	2- 1x5- 6	5 1/2
10x32	2.57	2- 1x5-10	5 1/2
12x20	1.75	2- 5x3-10	4 1/2
12x22	1.85	2- 5x4- 2	5
12x24	1.86	2- 5x4- 6	5
12x26	1.97	2- 5x4-10	5 1/2
12x28	2.04	2- 5x5- 2	5 1/2
12x30	2.42	2- 5x5- 6	6
12x32	2.67	2- 5x5-10	6
12x34	2.78	2- 5x6- 2	6 1/2
12x36	2.90	2- 5x6- 6	7
14x20	1.95	2- 9x3-10	5
14x22	2.12	2- 9x4- 2	5 1/2
14x24	2.13	2- 9x4- 6	6
14x26	2.21	2- 9x4-10	6
14x28	2.46	2- 9x5- 2	6 1/2
14x30	2.65	2- 9x5- 6	7
14x32	2.82	2- 9x5-10	7 1/2
14x34	3.09	2- 9x6- 2	7 1/2
14x36	3.24	2- 9x6- 6	8
15x30	2.90	2-11x5- 6	7 1/2
15x32	3.09	2-11x5-10	8

Clear White Pine Hall, Closet or Stair Landing Sash

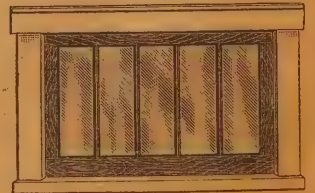


10-F-1411

Made in First Class Manner of Clear White Pine

The side stiles and top rail are 2 in. wide while the bottom rail is 3 in. wide. First quality material and manufacture. Glazed with clear glass, strongly tacked and puttied. Exceptional values.

Glass Size Inches	Thickness Inches	Outside Measure Width Height ft. in. ft. in.	Price 10-F-1411 1 Light Glazed	Price 10-F-1413 5 Light Glazed
30x14	1 1/4	2-10x1- 7	\$0.90	\$1.40
30x16	1 1/4	2-10x1- 9	1.02	1.45
30x18	1 1/4	2-10x1-11	1.05	1.52
32x16	1 1/4	3- 0x1- 9	1.07	1.57
36x16	1 1/4	3- 4x1- 9	1.10	1.60
36x18	1 1/4	3- 4x1-11	1.19	1.69
40x18	1 1/4	3- 8x1-11	1.52	2.02



10-F-1413

Standard CHECK RAIL 1 3/8 INCH THICK CLEAR WHITE PINE Windows

Our Check Rail Windows are plowed and bored for sash cord and can be used with or without weights. The Check Rail feature where the two sash come together, prevents rattling and makes the windows stormproof.



10-F-74

Eight Light CHECK RAIL Windows

1 3/8 Inch Thick

10-F-74

Size of Glass	Thickness	Price per Window Glazed	Outside Measure Width Ht. ft. in. ft. in.	Size of Sash Weight Required
8x10	1 3/8	\$1.43	1- 9x3-10	3 1/2 lbs.
8x12	1 3/8	1.56	1- 9x4- 6	3 1/2 lbs.
9x12	1 3/8	1.64	1-11x4- 6	4 1/2 lbs.
9x14	1 3/8	1.77	1-11x5- 2	4 1/2 lbs.
10x12	1 3/8	1.73	2- 8x4- 6	4 1/2 lbs.
10x14	1 3/8	1.86	2- 8x5- 2	5 lbs.
10x16	1 3/8	1.99	2- 8x5-10	5 1/2 lbs.
12x14	1 3/8	2.06	2- 5x5- 2	5 1/2 lbs.
12x16	1 3/8	2.39	2- 5x5-10	6 lbs.
12x18	1 3/8	2.60	2- 5x6- 6	6 1/2 lbs.
14x16	1 3/8	2.99	2- 9x5-10	7 lbs.
14x18	1 3/8	3.06	2- 9x6- 6	7 1/2 lbs.
14x20	1 3/8	3.06	2- 9x7- 2	8 1/2 lbs.

Twelve Light CHECK RAIL Windows

1 3/8 Inch Thick

10-F-76

Size of Glass	Thickness	Price per Window Glazed	Outside Measure Width Ht. ft. in. ft. in.	Size of Sash Weight Required
8x10	1 3/8	\$1.70	2- 4 1/2 x3-10	4 1/2 lbs.
8x12	1 3/8	1.79	2- 4 1/2 x4- 6	5 lbs.
9x12	1 3/8	2.07	2- 7 1/2 x4- 6	5 1/2 lbs.
9x14	1 3/8	2.21	2- 7 1/2 x5- 2	6 lbs.
10x12	1 3/8	2.09	2-10 1/2 x4- 6	5 1/2 lbs.
10x14	1 3/8	2.31	2-10 1/2 x5- 2	6 1/2 lbs.
10x16	1 3/8	2.82	2-10 1/2 x5-10	7 1/2 lbs.
10x18	1 3/8	3.18	2-10 1/2 x6- 6	8 lbs.
12x14	1 3/8	3.90	3- 4 1/2 x5- 2	8 lbs.
12x16	1 3/8	3.29	3- 4 1/2 x5-10	9 lbs.



10-F-76

Regular Plain Rail Windows

CLEAR WHITE PINE

1 1/2 Inch Thick

The Plain Rail Windows listed below are made of stock 1 1/2 inches thick and are usually held in place by spring bolts on one or both sides of each sash. A window of this kind is rarely put in a first class residence, but for the cheaper houses and to be used in barns, sheds and shops, the plain rail window is all right and can be recommended. The same high-grade stock is used as in our check rail windows. On Plain Rail windows the top sash is usually stationary.

When ordering, be sure to give width first.

Prices for all windows on this page include top and bottom sash with glass puttied in.

A window 10x12, 12 lights, is considered an average size and weighs 25 pounds, shipping weight. Other sizes will weigh more or less in proportion to sizes.

Cut of "Check Rail" Shown on Preceding Page.



Plain Rail

Plain Rail Windows—Four Light

1 1/2 Inch Thick

10-F-73

2 Lights Above And 2 Lights Below.

Size of Glass	Thickness	Price per Window Glazed	Outside Measure Width Ht. ft. in. ft. in.
12x20	1 1/2	\$1.66	2- 4x3-10
12x24	1 1/2	1.75	2- 4x4- 6
12x26	1 1/2	1.87	2- 4x4-10
12x28	1 1/2	1.94	2- 4x5- 2

Plain Rail Windows—Eight Light

10-F-75

4 Lights Above And 4 Lights Below.

Size of Glass	Thickness	Price per Window Glazed	Outside Measure Width Ht. ft. in. ft. in.
8x10	1 1/2	\$1.36	1- 8 1/2 x3-10
9x12	1 1/2	1.56	1-10 1/2 x4- 6
10x12	1 1/2	1.64	2- 0 1/2 x4- 6
10x14	1 1/2	1.77	2- 0 1/2 x5- 2
12x14	1 1/2	1.96	2- 4 1/2 x5- 2

Plain Rail Windows—Twelve Light

10-F-77

6 Lights Above And 6 Lights Below.

Size of Glass	Thickness	Price per Window Glazed	Outside Measure Width Ht. ft. in. ft. in.
7x 9	1 1/2	\$1.60	2- 1x3- 6
8x10	1 1/2	1.61	2- 4x3-10
8x12	1 1/2	1.69	2- 4x4- 6
8x14	1 1/2	2.16	2- 4x5- 2
9x12	1 1/2	1.91	2- 7x4- 6
9x14	1 1/2	2.16	2- 7x5- 2
10x12	1 1/2	1.99	2-10x4- 6
10x14	1 1/2	2.19	2-10x5- 2
10x16	1 1/2	2.68	2-10x5-10
12x14	1 1/2	2.75	3- 4x5- 2
12x16	1 1/2	3.13	3- 4x5-10

These Are Low Prices for
Finely Made Clear
WHITE PINE SASH



Made of special selected long fiber cotton, firmly braided. The strongest and most durable manufactured. Put up in bundles of 100 ft.
10-F-3645. No. 7, 7/8 inch diam. \$1.05
Per bundle.....

Sash Weights

10-F-3643. Four weights are required to hold each window. Weights range from 3 to 9 pounds by half pounds. Heavier than 9 pounds, graduate by pounds.
Per pound..... 2 1/2 c

Ball Bearing Steel Sash Pulley



10-F-3649. Electrically welded and cannot break. Requires no screws. Simply bore three holes and drive the pulley in. Diameter of wheel, 2 inches.
Per dozen..... 59 c

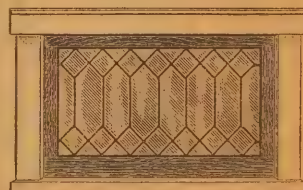
White Pine Hall, Closet or Stair Landing Sash

The side stiles and top rail are 2 inches wide while the bottom rail is 3 inches wide. Made of Clear White Pine.
First quality material and manufacture. Glazed with clear glass, and puttied and back puttied. Exceptional values.



10-F-1412

Glass Size Inches	Thickness Inches	Outside Measure Width Height ft. in. ft. in.	10-F-1412 Price 8 Light Glazed	10-F-1414 Price Glazed Leaded
30x14	1 1/2	2-10x1- 7	\$1.70	\$2.99
30x16	1 1/2	2-10x1- 9	1.75	3.38
32x18	1 1/2	2-10x1-11	1.82	6.45
36x16	1 1/2	3- 0x1- 9	1.87	3.60
36x18	1 1/2	3- 4x1- 9	1.90	4.03
36x18	1 1/2	3- 4x1-11	1.99	4.43
40x18	1 1/2	3- 8x1-11	2.32	4.98

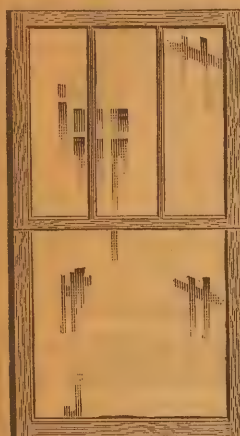


10-F-1414

Divided-Light Windows



10-F-1337



10-F-1344



Fancy Cut-up Top Sash

Price table below includes window complete as illustrated, top sash and bottom sash, glazed with clear glass.

CHECKRAIL
1 1/8" THICK

1 3/8" Thick



10-F-1341



Divided by Wood Bars

Glazed S. S. means that window is set with glass in single strength thickness—glazed D. S. double strength.

CHECKRAIL
1 1/8" THICK



10-F-1342



10-F-1345

CLEAR WHITE PINE

These are the best known and most popular designs in fancy cut up top sash. Wood bars are used to divide the lights and the work is done by hand, each piece being carefully mortised in, pinned and smoothly sanded. Every light of glass is well tacked and puttied to hold its place.

A WORD ABOUT SIZES—Having our own sash factory right here at our main plant we can furnish any size at proportionately low prices.

WEIGHTS: A window 28x28 2 lights check rail 1 1/8 inches thick is considered an average size and weighs 28 pounds, shipping weight. Other sizes will weigh more or less in proportion to sizes. For size of sash, weights required, see 2 light Check Rail windows on preceding pages.

Sizes of Glass	OUTSIDE MEASURE Width Height Ft. in. Ft. in.	10-F-1337		10-F-1341		10-F-1342		10-F-1344		10-F-1345	
		Glazed S. S.	Glazed D. S.	Glazed S. S.	Glazed D. S.	Glazed S. S.	Glazed D. S.	Glazed S. S.	Glazed D. S.	Glazed S. S.	Glazed D. S.
16x20	1- 8 1/4x3-10	\$2.15	\$2.49	\$1.75	\$2.09	\$1.95	\$2.29	\$1.65	\$1.99	\$2.05	\$2.39
16x24	1- 8 1/4x4- 6	2.29	2.66	1.89	2.26	2.09	2.46	1.79	2.16	2.19	2.56
16x26	1- 8 1/4x4-10	2.48	2.90	2.08	2.50	2.28	2.70	1.98	2.40	2.38	2.80
16x28	1- 8 1/4x5- 2	2.56	3.00	2.16	2.60	2.36	2.80	2.06	2.50	2.46	2.90
18x20	1-10 1/4x3-10	2.24	2.60	1.84	2.20	2.04	2.40	1.74	2.10	2.14	2.50
18x28	1-10 1/4x5- 2	2.65	3.11	2.25	2.71	2.45	2.91	2.15	2.61	2.55	3.01
20x20	2- 0 1/4x3-10	2.29	2.66	1.89	2.26	2.09	2.46	1.79	2.16	2.19	2.56
20x24	2- 0 1/4x4- 6	2.49	2.91	2.09	2.51	2.29	2.71	1.99	2.41	2.39	2.81
20x26	2- 0 1/4x4-10	2.57	3.01	2.17	2.61	2.37	2.81	2.07	2.51	2.47	2.91
20x28	2- 0 1/4x5- 2	2.65	3.11	2.25	2.71	2.45	2.91	2.15	2.61	2.55	3.01
22x24	2- 2 1/4x4- 6	2.61	3.06	2.21	2.66	2.41	2.86	2.11	2.56	2.51	2.96
22x26	2- 2 1/4x4-10	2.69	3.16	2.29	2.76	2.49	2.96	2.19	2.66	2.59	3.06
22x28	2- 2 1/4x5- 2	2.81	3.31	2.41	2.91	2.61	3.11	2.31	2.81	2.71	3.21
22x30	2- 2 1/4x5- 6	2.96	3.50	2.56	3.10	2.76	3.30	2.46	3.00	2.86	3.40
24x20	2- 4 1/4x3-10	2.44	2.85	2.04	2.45	2.24	2.65	1.94	2.35	2.34	2.75
24x22	2- 4 1/4x4- 2	2.60	3.05	2.20	2.65	2.40	2.85	2.10	2.55	2.50	2.95
24x24	2- 4 1/4x4- 6	2.66	3.13	2.26	2.73	2.46	2.93	2.16	2.63	2.56	3.03
24x26	2- 4 1/4x4-10	2.69	3.16	2.29	2.76	2.49	2.96	2.19	2.66	2.59	3.06
24x28	2- 4 1/4x5- 2	2.80	3.30	2.40	2.90	2.60	3.10	2.30	2.80	2.70	3.20
24x30	2- 4 1/4x5- 6	2.96	3.50	2.56	3.10	2.76	3.30	2.46	3.00	2.86	3.40
26x20	2- 6 1/4x3-10	2.57	3.01	2.17	2.61	2.37	2.81	2.07	2.51	2.47	2.91
26x22	2- 6 1/4x4- 2	2.72	3.20	2.32	2.80	2.52	3.00	2.22	2.70	2.62	3.10
26x24	2- 6 1/4x4- 6	2.73	3.21	2.33	2.81	2.53	3.01	2.23	2.71	2.63	3.11
26x26	2- 6 1/4x4-10	2.81	3.31	2.41	2.91	2.61	3.11	2.31	2.81	2.71	3.21
26x28	2- 6 1/4x5- 2	3.01	3.56	2.61	3.16	2.81	3.36	2.51	3.06	2.91	3.46
26x30	2- 6 1/4x5- 6	3.19	3.79	2.79	3.39	2.99	3.59	2.69	3.29	3.09	3.69
28x24	2- 8 1/4x4- 6	2.90	3.43	2.50	3.03	2.70	3.23	2.40	2.93	2.80	3.33
28x26	2- 8 1/4x4-10	3.02	3.53	2.62	3.18	2.82	3.38	2.52	3.08	2.92	3.48
28x28	2- 8 1/4x5- 2	3.13	3.71	2.73	3.31	2.93	3.51	2.63	3.21	3.03	3.61
28x30	2- 8 1/4x5- 6	3.19	3.79	2.79	3.39	2.99	3.59	2.69	3.29	3.09	3.69
28x32	2- 8 1/4x5-10	3.68	4.40	3.28	4.00	3.48	4.20	3.18	3.90	3.58	4.30
30x24	2-10 1/4x4- 6	2.96	3.50	2.56	3.10	2.76	3.30	2.46	3.00	2.86	3.40
30x26	2-10 1/4x4-10	3.19	3.79	2.79	3.39	2.99	3.59	2.69	3.29	3.09	3.69
30x28	2-10 1/4x5- 2	3.22	3.83	2.82	3.43	3.02	3.63	2.72	3.33	3.12	3.73
30x30	2-10 1/4x5- 6	3.52	4.20	3.12	3.80	3.32	4.00	3.02	3.70	3.42	4.10
30x32	2-10 1/4x5-10	3.79	4.54	3.39	4.14	3.59	4.34	3.29	4.04	3.69	4.44
32x24	3- 0 1/4x4- 6	3.34	3.98	2.94	3.58	3.14	3.78	2.84	3.48	3.24	3.88
32x28	3- 0 1/4x5- 2	3.68	4.40	3.28	4.00	3.48	4.20	3.18	3.90	3.58	4.30
32x30	3- 0 1/4x5- 6	3.79	4.54	3.39	4.14	3.59	4.34	3.29	4.04	3.69	4.44
36x28	3- 4 1/4x5- 2	3.98	4.76	3.58	4.36	3.78	4.56	3.48	4.26	3.88	4.66
36x30	3- 4 1/4x5- 6	4.07	4.89	3.67	4.49	3.87	4.69	3.57	4.39	3.97	4.79

Cellar Sash, Attic Sash, Dormer Sash, Barn Sash and Transoms

ALL SASH AND WINDOWS ARE GLAZED

These Sash are made in every respect just the same as our highest class Windows

—Clear White Pine Lumber,
standard width, thickness and manu-
facture, glass strongly tacked with zinc
points and glass carefully puttied in.



Dormer or Gable Casement Sash
Above 10-F-330 1 1/2 Inches Thick

Size of Glass Inches	Outside meas. ft. in. ft. in.	Price Glazed
8x10	1- 8 1/2 x2-11 1/2	\$1.22
9x12	1-10 1/2 x3- 5 1/2	1.41
10x14	2- 0 1/2 x3-11 1/2	1.62



Dormer or Gable French Window
Above 10-F-331 1 1/2 Inches Thick

Outside measure ft. in. ft. in.	Price Per Pair
2- 8x2- 6	\$2.40
2-10x2-10	2.58



Iowa Barn Sash
Above 10-F-332 1 1/2 Inches Thick

Size of Glass Inches	Outside meas. ft. in. ft. in.	Price Glazed
8x10	2- 4x2-11	\$1.59
9x12	2- 7x3- 5	1.67
10x12	2-10x3- 5	1.84

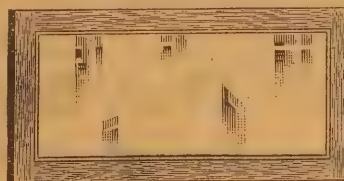


Single Sash Clear White Pine No. 10-F-84

One Light, 1 1/2 Inches Thick

Size of Glass Inches	Price, Glazed	Outside meas. ft. in. ft. in.
16x20	\$0.68	1- 8x2- 1
18x20	.73	1-10x2- 1
20x20	.76	2- 0x2- 1
20x24	.88	2- 0x2- 5
24x24	.99	2- 4x2- 5
24x28	1.07	2- 4x2- 9
24x30	1.15	2- 4x2-11

Single Sash and Transoms



No. 10-F-80 Transom Sash,
Clear White Pine
1 Light 1 1/2 Inches Thick

Outside Measure Width Height ft. in. in.	Thickness	Price, 1 Lgt. Glazed
2- 6x10	1 1/2	\$0.56
2- 6x12	1 1/2	.62
2- 6x14	1 1/2	.68
2- 8x16	1 1/2	.83
2- 8x10	1 1/2	.57
2- 8x12	1 1/2	.63
2- 8x14	1 1/2	.65
2- 8x16	1 1/2	.71
2- 8x18	1 1/2	.81
2- 8x20	1 1/2	.87
2-10x12	1 1/2	.68
2-10x14	1 1/2	.77
2-10x16	1 1/2	.84
2-10x18	1 1/2	.90
2-10x20	1 1/2	.96
3- 0x12	1 1/2	.72
3- 0x14	1 1/2	.77
3- 0x16	1 1/2	.83
3- 0x18	1 1/2	.90
3- 0x20	1 1/2	.96



Barn Sash No. 10-F-86 Clear White Pine

Four Lights, 1 1/2 Inch Thick

Size of Glass Inches	Price, Glazed	Outside meas. ft. in. ft. in.
8x10	\$0.75	1- 8x2- 1
9x12	.84	1-10x2- 5
9x14	.89	1-10x2- 9
10x12	.87	2- 0x2- 5
10x14	.93	2- 0x2- 9
10x16	1.09	2- 0x3- 1
12x14	1.19	2- 4x2- 9
12x16	1.27	2- 4x3- 1



Barn Sash

Clear
White
Pine

No. 10-F-87
6 Lights, 1 1/2
Inch Thick

Size of Glass Inches	Price, Glazed	Outside meas. ft. in. ft. in.
8x10	\$0.84	2- 4x2- 1
9x12	1.01	2- 7x2- 5
10x12	1.02	2-10x2- 5
10x14	1.23	2-10x2- 9
10x16	1.44	2-10x3- 1
12x14	1.68	3- 4x2- 9
12x16	1.80	3- 4x3- 1

Cellar Sash

Clear
White
Pine

No. 10-F-81



Two Lights, 1 1/2 Inches Thick

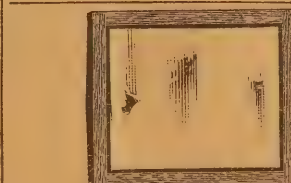
Size of Glass Inches	Price, Glazed	Outside meas. ft. in. ft. in.
10x12	\$0.63	2- 1x1- 5
10x14	.68	2- 1x1- 7
10x16	.75	2- 1x1- 9
10x18	.83	2- 1x1-11
10x20	.86	2- 1x2- 1
12x12	.98	2- 5x1- 5
12x14	.74	2- 5x1- 7
12x16	.77	2- 5x1- 9
12x18	.85	2- 5x1-11
12x20	.86	2- 5x2- 1
12x24	.96	2- 5x2- 5
14x16	.84	2- 9x1- 9
14x18	.85	2- 9x1-11
14x20	.92	2- 9x2- 1

Cellar Sash



No. 10-F-82 Clear White Pine
Three Lights, 1 1/2 Inches Thick

Size of Glass Inches	Price, Glazed	Outside meas. ft. in. ft. in.
7x 9	\$0.56	2- 1x1- 2
8x10	.61	2- 4x1- 3
8x12	.67	2- 4x1- 5
8x14	.69	2- 4x1- 7
9x12	.68	2- 7x1- 5
9x14	.70	2- 7x1- 7
9x16	.78	2- 7x1- 9
10x12	.71	2-10x1- 5
10x14	.73	2-10x1- 7
10x16	.87	2-10x1- 9
12x12	.91	3- 4x1- 5
12x14	.93	3- 4x1- 7
12x16	.96	3- 4x1- 9
12x18	1.05	3- 4x1-11



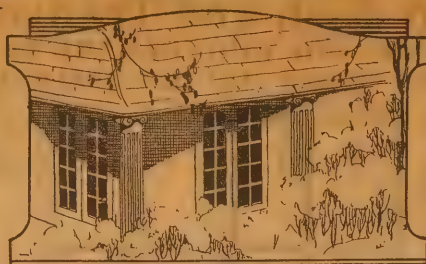
No. 10-F-83 Stall Sash, Clear White Pine
1 Light 1 1/2 Inches Thick

Size of Glass Inches	Price Glazed	Outside meas. ft. in. ft. in.
10x12	\$0.49	1-2x1-5
10x14	.51	1-2x1-7
12x14	.54	1-4x1-7
12x16	.57	1-4x1-9

French Casement Windows, Colonial Shutters



10-F-306



Lowest Prices

Handsome, artistic French Windows harmonize with any style of architecture. Made of best quality "A" grade Soft White Pine stock, glazed with clear double strength glass. They are furnished in pairs, rabbeted at the center where the sash join, in the manner of a cupboard door, insuring a close fit. Strong wood dividing bars are used and the sash are built in the most substantial manner. These designs are the most desirable as well as the most popular. They are 1 3/8" Thick. Frames are shown elsewhere in this catalog.



10-F-307

Price per Pair of French Windows

Opening Size	2-8x3-6	2-8x4-6	2-8x5-2	2-10x5-2	2-10x5-6	3-0x4-6	3-0x5-2	3-0x5-6	3-4x5-6	3-8x5-6	Ship. wt.
10-F-306	\$3.46	\$4.14	\$4.62	\$4.94	\$5.10	\$4.32	\$4.95	\$5.10	\$5.33	\$5.72	38
10-F-307	3.69	4.39	4.99	5.06	5.31	4.72	4.96	5.18	5.71	6.52	40

Outside Blinds—They Beautify Any Home



10-F-693



This is a new improvement in the making of shutters, the bottom panel is solid but moulded on both sides to look like slats, much more attractive than solid panels and you have all the beauty of slat shutters but none of the rattles and breakages.

Special designs in top panel can be furnished. You will be tremendously surprised what an improvement a few pairs if added on the front only will make.

In addition to ornamentation, shutters afford considerable protection, keeping the house warmer in the winter and cooler in the summer.

Made in pairs of two half sections and each unit price covers two half sections for the size window listed.

Our Shutters are all made from strictly clear White Pine, well manufactured, accurately machined and shipped unpainted.

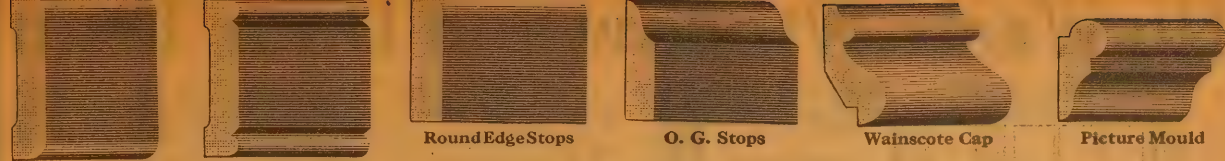
The column under size of opening means that this is the measurement of the opening that the shutters are to be fitted into. All shutters made 1 1/4 inches thick.



10-F-699

Size of Opening ft. in. ft. in.	10F693 Price per Pair	Ship. Weight	Size of Opening ft. in. ft. in.	10F693 Price per Pair	Ship. Weight	Size of Opening ft. in. ft. in.	10F699 Price per Pair	Ship. Weight	Size of Opening ft. in. ft. in.	10F699 Price per Pair	Ship. Weight
2-0 1/2 x 3-11 1/2	\$4.68	15	2-8 1/2 x 5-3 1/2	\$5.87	25	2-0 1/2 x 3-11 1/2	\$4.60	15	2-8 1/2 x 5-3 1/2	\$5.77	25
2-4 1/2 x 4-7 1/2	5.48	18	2-8 1/2 x 5-7 1/2	6.40	26	2-4 1/2 x 4-7 1/2	5.40	18	2-8 1/2 x 5-7 1/2	6.32	26
2-4 1/2 x 5-3 1/2	5.58	20	2-8 1/2 x 5-11 1/2	6.66	28	2-4 1/2 x 5-3 1/2	5.50	20	2-8 1/2 x 5-11 1/2	6.57	28
2-4 1/2 x 5-7 1/2	5.98	22	2-10 1/2 x 5-7 1/2	6.58	26	2-4 1/2 x 5-7 1/2	5.89	22	2-10 1/2 x 5-7 1/2	6.50	26
2-6 1/2 x 5-3 1/2	5.69	22	2-10 1/2 x 5-11 1/2	6.84	28	2-6 1/2 x 5-3 1/2	5.62	22	2-10 1/2 x 5-11 1/2	6.76	28
2-6 1/2 x 5-7 1/2	6.21	24	3-0 1/2 x 5-11 1/2	7.12	30	2-6 1/2 x 5-7 1/2	6.14	24	3-0 1/2 x 5-11 1/2	7.05	30

For Sizes not listed, allow price of next larger size.



Chair Rail

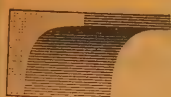
Hook Strip

Round Edge Stops

O. G. Stops

Wainscote Cap

Picture Mould



Cove Mould

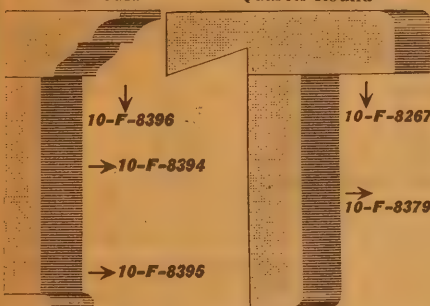


Quarter Round

Yellow Pine—Fir—Oak and Birch Interior Trim

Most popular designs of interior moulding for modern homes. Manufactured from finest selected clear woods run on low speed machines to produce an excellent smooth finish. Kept clean and bright because of our mammoth fast moving stocks. Sold in random lengths, 8 ft. to 16 ft. Your choice of Yellow Pine, Fir, Oak and Birch, presenting interior trim for every required finish suitable for oil, stain, paint or enamel.

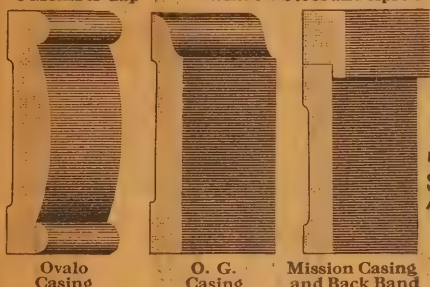
Add 10% to These Prices for Specified Lengths



3 Member Cap

Window Stool and Apron

→ 10-F-1002

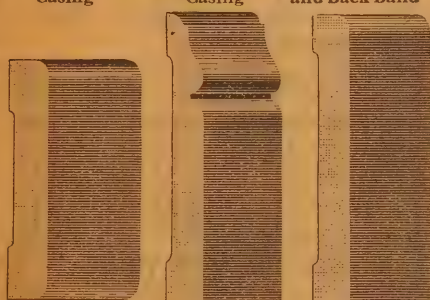


Ovalo Casing

O. G. Casing

Mission Casing and Back Band

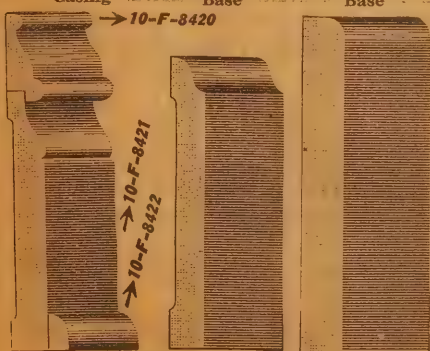
→ 10-F-1000



Round Edge Casing

Moulded Base

Round Edge Base



→ 10-F-8420

→ 10-F-8421
→ 10-F-8422

3 Member Base

O. G. Base

Base Blocks

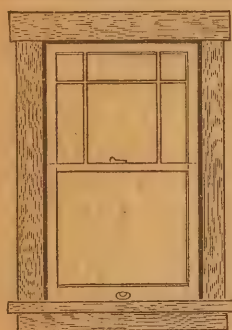
Order by this No.	Name of Moulding	Size	Prices per 100 lineal feet				Weight per 100 Lineal Feet
			Yellow Pine	Fir	Oak	Birch	
10-F-8496	Chair Rail	3/4"x3 3/4"	\$3.36	\$3.57	\$7.14	\$7.88	80 lbs.
10-F-8234	Hook Strip	3/4"x2 1/2"	2.20				50 lbs.
10-F-8541	Round Edge Stop	1/2"x1 3/8"	1.20	1.28	2.55	2.61	20 lbs.
10-F-8542	Round Edge Stop	1/2"x1 3/8"	1.60	1.70	3.40	3.47	25 lbs.
10-F-8083	O. G. Stop	3/4"x1 3/8"	.80	.85	1.70	1.80	20 lbs.
10-F-8084	O. G. Stop	3/4"x1 3/8"	.88	.94	1.87	1.91	25 lbs.
10-F-8085	O. G. Stop	3/4"x1 3/8"	1.12	1.19	2.38	2.43	25 lbs.
10-F-8096	O. G. Stop	1/2"x1 3/8"	1.20	1.28	2.55	2.61	25 lbs.
10-F-8095	O. G. Stop	1/2"x1 3/8"	1.60	1.70	3.40	3.47	25 lbs.
10-F-8093	O. G. Stop	1/2"x2 1/4"	2.00	2.12	4.25	4.50	30 lbs.
10-F-8228	Wainscote Cap	3/4"x2	2.00	2.12	4.25	4.50	40 lbs.
10-F-8264	Picture Mould	3/4"x1 3/4"	1.60	1.70	3.40	3.67	35 lbs.
10-F-8396	Cap Mould	1 1/2"x2 1/4"	3.32	3.53	7.06	9.19	80 lbs.
10-F-8394	Head Casing	3/4"x4 1/2"	4.20	4.46	8.93	9.88	90 lbs.
10-F-8395	Fillet	1/4"x1	1.00	1.06	2.13	2.20	15 lbs.
10-F-8267	Window Stool	1 1/2"x3 3/8"	5.28	5.61	11.22	11.60	100 lbs.
10-F-8379	Window Apron	3/4"x3 3/8"	3.36	3.57	7.14	7.90	80 lbs.
10-F-8341	Ovalo Casing	3/4"x4 1/4"	4.50	4.73	9.40	9.87	85 lbs.
10-F-8342	O. G. Casing	3/4"x4 1/4"	4.75	4.98	9.65	10.15	100 lbs.
10-F-8384	O. G. Casing	3/4"x4 1/4"	4.00	4.25	8.50	9.87	85 lbs.
10-F-8385	O. G. Casing	3/4"x5 1/4"	4.80				105 lbs.
10-F-1000	Mission Casing	3/4"x3 1/2"	3.36	3.57	7.14	7.90	80 lbs.
10-F-1001	Mission Casing	3/4"x4 1/2"	4.00	4.25	8.50	9.87	85 lbs.
10-F-1002	Back Band	1 1/2"x1 1/4"	1.84	1.96	3.91	3.85	35 lbs.
10-F-8308	Round Edge Casing	3/4"x3 3/8"	3.36	3.57	7.14	7.90	80 lbs.
10-F-8309	Round Edge Casing	3/4"x4 1/4"	4.00	4.25	8.50	9.90	85 lbs.
10-F-8310	Round Edge Casing	3/4"x4 3/4"	4.80	5.10	10.20	10.30	95 lbs.
10-F-8311 1/2	Round Edge Casing	3/4"x5 3/8"	5.20	5.53	11.05	11.85	95 lbs.
10-F-8426	Moulded Base	3/4"x7 1/4"	6.40	6.80	13.60	15.75	140 lbs.
10-F-1003	Round Edge Base	3/4"x7 1/4"	6.40	6.80	13.60	15.75	140 lbs.
10-F-8420	Base Mould	3/4"x2 1/4"	2.20	2.34	4.68	5.95	40 lbs.
10-F-8421	Moulded Base	3/4"x7 1/4"	6.40	6.80	13.60	15.75	140 lbs.
10-F-8421 1/2	Moulded Base	3/4"x7 1/4"	4.80	5.10	10.20	11.85	105 lbs.
10-F-8422	Base Shoe	3/4"x3 3/8"	.80	.85	1.70	1.80	15 lbs.
10-F-8385	O. G. Base	3/4"x5 1/4"	4.80				105 lbs.
10-F-8386	O. G. Base	3/4"x7 1/4"	6.40	6.80	13.60	15.75	140 lbs.
10-F-8060	Cove Mould	3/4"x3 3/4"	.80	.85	1.70	1.80	15 lbs.
10-F-8065	Quarter Round	3/4"x3 3/4"	.80	.85	1.70	1.80	15 lbs.
Order by this No.	Name	Size	Price, Each				Weight Each
			Yellow Pine	Fir	Oak	Birch	
10-F-134	Base Blocks	1 1/2"x3 3/4" x10	7c	8c	14c	19c	2 lbs.
10-F-144	Base Blocks	1 1/2"x4 1/4" x10	8c	9c	15c	20c	2 lbs.

Special Designs Made to Order. Write for Prices!

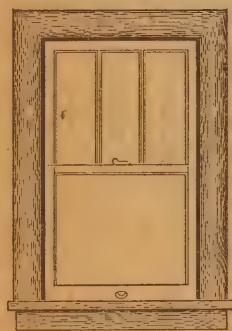
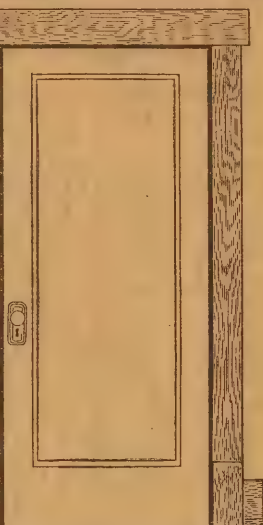
No Waste Window and Door Trim



**"Back Band"
Door and Window
Trim**



**"Mission"
Door and Window
Trim**



**"Mitered Round
Edge" Casing
Door and Window
Trim**



Made of finest selected mouldings clear and smooth. No waste when you order inside trim from these pages and no chance of mistakes. Saves much time and expense. Cut to lengths with liberal allowance for fitting on the job. Do not overlook to order two sets of trim for inside doors, one for each side and one set for outside doors and windows. Carefully cut and bundled.

If the size you require is not listed, allow price of next larger size.

PRICES

BACK BAND DOOR TRIM

The Back Band Trim shown is one of the styles of handsome trim used in our Harris Homes—easy for the carpenter to apply and easy for the housewife to keep clean.

Any size door opening up to and including Width Height ft. in. ft. in.	Each set consists of $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Casing No. 1000, 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ Back Band No. 1002 and O. G. Stops.			
	10-F-1007 Yellow Pine	10-F-1008 Clear Fir	10-F-1009 Red Oak	10-F-1010 Birch
2-8 x 6-8	\$1.38	\$1.46	\$2.46	\$2.87
3-0 x 7-0	1.43	1.50	2.51	2.93
5-0 x 7-0	1.52	1.59	2.70	3.15
8-0 x 8-0	1.88	1.97	3.01	3.52
9-0 x 9-0	2.28	2.40	3.35	3.90

BACK BAND WINDOW TRIM

Any size window opening up to and including
Width Height
ft. in. ft. in.

Each set consists of $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Casing No. 1000, 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ Back Band No. 1002, Stool No. 8267, Apron No. 8379 and O. G. Stops.

Any size window opening up to and including Width Height ft. in. ft. in.	Each set consists of $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Casing No. 1000, 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ Back Band No. 1002, Stool No. 8267, Apron No. 8379 and O. G. Stops.			
	10-F-1013 Yellow Pine	10-F-1014 Clear Fir	10-F-1015 Red Oak	10-F-1016 Birch
2-4 $\frac{1}{2}$ x3-10	\$1.45	\$1.52	\$2.51	\$2.93
2-6 $\frac{1}{2}$ x4-6	1.47	1.54	2.57	3.00
2-8 $\frac{1}{2}$ x5-2	1.59	1.67	2.80	3.27
2-10 $\frac{1}{2}$ x5-6	1.62	1.70	2.84	3.32
3-8 $\frac{1}{2}$ x6-2	1.91	2.01	3.35	3.91

MISSION DOOR TRIM

To those who fancy a plain trim, we recommend our Mission Style. When used with our Seattle or Olympia Door, it is considered a harmonizing design.

Any size door opening up to and including Width Height ft. in. ft. in.	Each set consists of $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Casing No. 1000, $\frac{3}{4}$ x4 $\frac{1}{4}$ Head Casing, No. 134 Base Blocks and O. G. Stops.			
	10-F-1908 Yellow Pine	10-F-1909 Clear Fir	10-F-1910 Red Oak	10-F-1911 Birch
2-8 x 6-8	\$1.01	\$1.06	\$2.28	\$2.65
3-0 x 7-0	1.07	1.12	2.34	2.73
5-0 x 7-0	1.15	1.21	2.51	2.93
8-0 x 8-0	1.50	1.58	3.00	3.50
9-0 x 9-0	1.56	1.64	3.32	3.87

MISSION WINDOW TRIM

Any size window opening up to and including
Width Height
ft. in. ft. in.

Each set consists of $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Casing No. 1000, $\frac{3}{4}$ x4 $\frac{1}{4}$ Head Casing, No. 8267 Stool, No. 8379 Apron and O. G. Stops.

Any size window opening up to and including Width Height ft. in. ft. in.	Each set consists of $\frac{3}{4}$ x3 $\frac{1}{2}$ in. Casing No. 1000, $\frac{3}{4}$ x4 $\frac{1}{4}$ Head Casing, No. 8267 Stool, No. 8379 Apron and O. G. Stops.			
	10-F-1912 Yellow Pine	10-F-1913 Clear Fir	10-F-1914 Red Oak	10-F-1915 Birch
2-4 $\frac{1}{2}$ x3-10	\$1.03	\$1.09	\$1.89	\$2.21
2-6 $\frac{1}{2}$ x4-6	1.13	1.20	2.05	2.39
2-8 $\frac{1}{2}$ x5-2	1.15	1.21	2.25	2.62
2-10 $\frac{1}{2}$ x5-6	1.23	1.29	2.50	2.92
3-8 $\frac{1}{2}$ x6-2	1.40	1.47	2.67	3.12

ROUND EDGE MITERED DOOR TRIM

Our Mitered Round Edge Trim, like our Back Band Trim, is of the sanitary style and when properly finished or stained, it makes a very beautiful interior trim.

Any size door opening up to and including Width Height ft. in. ft. in.	Each set consists of $\frac{3}{4}$ x4 $\frac{1}{4}$ Round Edge Casing No. 8309, No. 144 Base Blocks and O. G. Stops.			
	10-F-2033 Yellow Pine	10-F-2034 Clear Fir	10-F-2035 Red Oak	10-F-2036 Birch
2-8 x 6-8	\$1.08	\$1.13	\$2.14	\$2.50
3-0 x 7-0	1.14	1.20	2.24	2.61
5-0 x 7-0	1.22	1.29	2.48	2.90
8-0 x 8-0	1.63	1.71	2.89	3.37
9-0 x 9-0	1.70	1.79	3.24	3.78

ROUND EDGE MITERED WINDOW TRIM

Any size window opening up to and including
Width Height
ft. in. ft. in.

Each set consists of $\frac{3}{4}$ x4 $\frac{1}{4}$ Round Edge Casing No. 8309, No. 8267 Stool, No. 8379 Apron and O. G. Stops.

Any size window opening up to and including Width Height ft. in. ft. in.	Each set consists of $\frac{3}{4}$ x4 $\frac{1}{4}$ Round Edge Casing No. 8309, No. 8267 Stool, No. 8379 Apron and O. G. Stops.			
	10-F-2042 Yellow Pine	10-F-2043 Clear Fir	10-F-2044 Red Oak	10-F-2045 Birch
2-4 $\frac{1}{2}$ x3-10	\$1.15	\$1.21	\$2.05	\$2.39
2-6 $\frac{1}{2}$ x4-6	1.20	1.26	2.11	2.47
2-8 $\frac{1}{2}$ x5-2	1.30	1.38	2.43	2.84
2-10 $\frac{1}{2}$ x5-6	1.30	1.38	2.73	3.19
3-8 $\frac{1}{2}$ x6-2	1.53	1.65	2.82	3.30

Yellow Pine, Fir, Oak and Birch

Cut to lengths with liberal allowance for fitting on the job. Don't forget to order two sets of trim for inside doors, one for each side and one set for outside doors and windows. Carefully cut and bundled.

If the size you require is not listed, allow price of next larger size.

PRICES

THREE MEMBER CAP DOOR TRIM

Our Three Member Cap Trim illustrated is a standard style used in many homes today. It is always impressive, regardless of what style door it is used with.

Any size door opening up to and including	Each set consists of $\frac{3}{4}$ x $4\frac{1}{4}$ inch Casing No. 8309. Three Member Cap, No. 144 Base Blocks and O. G. Stops.			
Width Height ft. in. ft. in.	10-F-914 Yellow Pine	10-F-925 Clear Fir	10-F-916 Red Oak	10-F-917 Birch
2- 8x6- 8	\$1.32	\$1.38	\$2.56	\$2.99
3- 0x7- 0	1.48	1.56	2.85	3.33
5- 0x7- 0	1.69	1.77	3.28	3.82
8- 0x8- 0	2.01	2.10	3.82	4.46
9- 0x9- 0	2.20	2.30	4.21	4.91

THREE MEMBER CAP WINDOW TRIM

Any size window opening up to and including	Each set consists of $\frac{3}{4}$ x $4\frac{1}{4}$ inch Casing No. 8309. Three Member Cap, No. 8267 Stool, No. 8379 Apron and O. G. Stops.			
Width Height ft. in. ft. in.	10-F-988 Yellow Pine	10-F-982 Clear Fir	10-F-990 Red Oak	10-F-991 Birch
2- 4 $\frac{1}{2}$ x3-10	\$1.30	\$1.37	\$2.45	\$2.86
2- 6 $\frac{1}{2}$ x4- 6	1.41	1.48	2.67	3.12
2- 8 $\frac{1}{2}$ x5- 2	1.52	1.59	2.88	3.36
2-10 $\frac{1}{2}$ x5- 6	1.60	1.67	2.97	3.47
3- 8 $\frac{1}{2}$ x6- 2	1.84	1.93	3.30	3.85

If the caps are wanted nailed together ready to nail in place, add 40c to the above price.

CHAMFERED HEAD DOOR TRIM

It is hard to choose a more attractive design than our Chamfered Head Interior Trim. We recommend this trim for high grade homes.

Any size door opening up to and including	Each set consists of $\frac{3}{4}$ x $3\frac{1}{2}$ inch Square Edge Casing No. 1000, $\frac{7}{8}$ x $5\frac{1}{2}$ Chamfered Head, No. 134 Base Blocks and O. G. Stops.			
Width Height ft. in. ft. in.	10-F-2234 Yellow Pine	10-F-2235 Clear Fir	10-F-2236 Red Oak	10-F-2237 Birch
2- 8x6- 8	\$1.23	\$1.29	\$2.17	\$2.53
3- 0x7- 0	1.30	1.36	2.31	2.70
5- 0x7- 0	1.40	1.47	2.57	3.00
8- 0x8- 0	1.57	1.65	2.83	3.31
9- 0x9- 0	1.71	1.80	3.08	3.59

CHAMFERED HEAD WINDOW TRIM

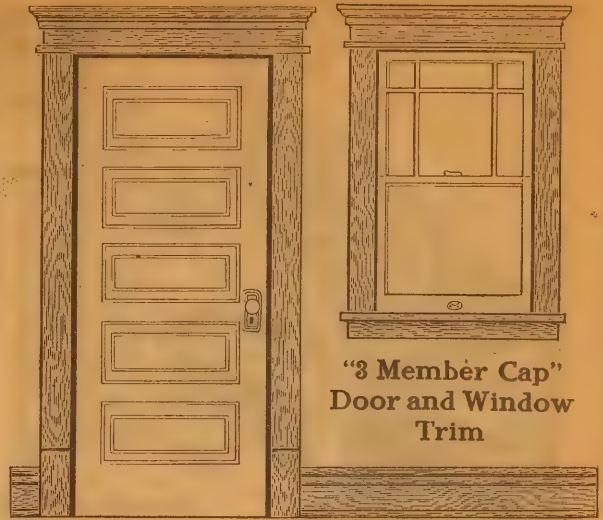
Any size window opening up to and including	Each set consists of $\frac{3}{4}$ x $3\frac{1}{2}$ inch Square Edge Casing No. 1000, $\frac{7}{8}$ x $5\frac{1}{2}$ Chamfered Head, No. 8267 Stool, No. 8379 Apron and O. G. Stops.			
Width Height ft. in. ft. in.	10-F-3940 Yellow Pine	10-F-3941 Clear Fir	10-F-3942 Red Oak	10-F-3943 Birch
2- 4 $\frac{1}{2}$ x3-10	\$1.23	\$1.29	\$2.13	\$2.49
2- 6 $\frac{1}{2}$ x4- 6	1.31	1.38	2.30	2.68
2- 8 $\frac{1}{2}$ x5- 2	1.40	1.47	2.48	2.90
2-10 $\frac{1}{2}$ x5- 6	1.47	1.54	2.55	2.97
3- 8 $\frac{1}{2}$ x6- 2	1.66	1.74	2.99	3.49

O. G. CASING DOOR TRIM

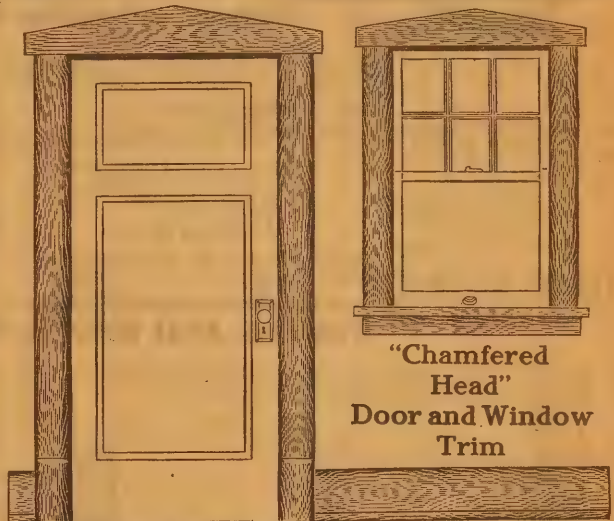
O. G. WINDOW TRIM

Our O. G. Trim is a simple design used most where economy and practicality is the watchword. When carefully fitted and finished, makes a handsome trim.

Any size door opening up to and including	Each set consists of $\frac{3}{4}$ x $4\frac{1}{4}$ inch O. G. Casing No. 8384, $\frac{3}{4}$ x $1\frac{1}{4}$ inch O. G. Stops.	Any size window opening up to and including	Each set consists of $\frac{3}{4}$ x $4\frac{1}{4}$ inch O. G. Casing No. 8384, No. 8267 Stool, No. 8379 Apron and O. G. Stops.
Width Height ft. in. ft. in.	10-F-975 Yellow Pine	Width Height ft. in. ft. in.	10-F-977 Yellow Pine
2- 8x6- 8	\$0.92	2- 4 $\frac{1}{2}$ x3-10	\$1.15
3- 0x7- 0	1.02	2- 6 $\frac{1}{2}$ x4- 6	1.20
5- 0x7- 0	1.12	2- 8 $\frac{1}{2}$ x5- 2	1.30
8- 0x8- 0	1.20	2-10 $\frac{1}{2}$ x5- 6	1.30
9- 0x9- 0	1.34	3- 8 $\frac{1}{2}$ x6- 2	1.58



"3 Member Cap"
Door and Window
Trim



"Chamfered
Head"
Door and Window
Trim



"OG"
Door and Window
Trim

ATTRACTIVE INTERIOR STAIRWAYS



Stairways Complete as Shown Flooring or Landing Material Not Included

The interior stairways shown on this and the opposite page are but four of numerous designs which we can furnish. We have found these to be the most popular and keep ample stock of all materials going into their construction on hand for quick shipment in oak and yellow pine. All carefully selected, clear stock, smoothly machined and ready for oil, stain, paint or enamel. No balustrade for second floor included.

Material for Stairway Above

All material to complete the stairway above furnished as follows:
For stairway opening 3 feet wide; height from finished first floor to finished second floor about 9 feet.

15 Risers, 3 feet	120 Lineal feet, 1 1/4 inch, S4S
13 Treads, 3 feet	24 Lineal feet Wall Mold
2 Starting Newels, No. 206	10 Lineal feet Return Nosing
2 Angle Newels, No. 128	60 Stair Wedges
2 Stringers, 16 feet	4 Blox
2 Landing Treads	60 Lineal feet Cove
1 Piece No. 156, 14 feet	

Stringers not Housed	Stringers Housed
10-F-695. Price, Yellow Pine \$41.95	10-F-697. Price, Yellow Pine \$52.44
10-F-696. Price, Red Oak 65.30	10-F-698. Price, Red Oak 81.73

Material for Stairway Above

All material to complete the stairway above furnished as follows:
For stairway opening 3 feet wide; height from finished first floor to finished second floor about 9 feet.

4 Stringers, 16 feet	1 Shoe, 14 feet
15 Risers, 3 feet	1 Fillet, 14 feet
14 Treads, 3 feet	120 Lineal feet, 1 1/4 x 1 1/4 inch
1 Landing Tread	4 Lineal feet Wall Mold
1 Starting Newel	10 Lineal feet Return Nosing
1 Landing Newel	70 Lineal feet Cove
1 Rail, 14 feet	60 Wedges

Stringers not Housed	Stringers Housed
10-F-697. Price, Yellow Pine \$37.75	10-F-699. Price, Yellow Pine \$47.19
10-F-698. Price, Red Oak 62.28	10-F-700. Price, Red Oak 77.85

NEWELS AND STOCK STAIRWAY MATERIALS

These newels are all popular modern designs—always in popular demand. Carried in stock at all times.



10-F-128
Angle or
Landing Newel



10-F-124
Main Newel



10-F-206
Main Newel

Angle or Landing Newels

5-inch extra long Shaft, 5 feet 6 inches long, can be cut down to use as landing or starting newels.

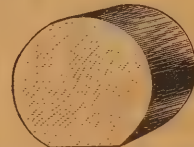
Prices of Angle Newels

10-F-128	Price, each
Yellow Pine	\$3.42
Plain Oak	4.50

Main Newels

Artistic and Exclusive Designs, 8 inches at Base, 6 inch Shaft, 4 feet long, extra long base.

10-F-124	Price, each
Yellow Pine	\$5.77
Plain Oak	6.88
10-F-206	Price, each
Yellow Pine	\$4.35
Plain Oak	5.25



Round Hand Rail

10-F-670. Rail, 1 1/2 x 1 1/4 inches.	Price, Yellow Pine, per foot.....	7c
10-F-676. Rail, 1 1/2 x 1 1/4 inches.	Price, Plain Oak, per foot.....	11c



Landing Nosing

10-F-8262. Size, 1 1/4 x 2 1/4 ins.
Price, per 100 lineal feet.

Yellow Pine	\$4.55
Plain Red Oak	8.20

Return Nosing

10-F-8262 1/2. Size, 1 1/4 x 1 1/4 ins.
Price, per 100 lineal feet.

Yellow Pine	\$2.90
Oak	5.25

Stair Stringers and Wall Mould

Prices per 100 Lineal Feet

	Size	Wood	Price
10-F-664.	Wallmold..... 3/4 x 1 1/4	Y. P.	\$ 1.53
10-F-655.	Wallmold..... 3/4 x 1 1/4	Oak	2.98
10-F-656.	Stringer..... 1 x 10	Y. P.	9.50
10-F-678 1/2.	Stringer..... 1 x 12	Y. P.	11.50
10-F-657.	Stringer..... 1 x 10	Oak	17.00
10-F-679 1/2.	Stringer..... 1 x 12	Oak	20.50

Wall
Mould



Stair
Stringer



Stairways Complete as Shown Flooring or Landing Material Not Included

Any one of the elegant interior stairways illustrated on these pages are furnished complete to you at a surprisingly low cost. After you have decided upon the style you wish, simply make a rough pencil sketch of the opening in your building allowed for stairway, showing the width between finished walls and the height from finished first floor to finished second floor. With this information, we will be able to tell you exactly what the stairway for your building will cost you. No balustrade for second floor included.

Material for Stairway Above

All material to complete the stairway above furnished as follows:
For stairway opening 3 ft. wide; height from finished first floor to finished second floor about 9 ft.

2 Stringers, 16 feet	1/2 Angle Newel
15 Risers	120 Lin. feet, 1 1/2 x 1 1/2
13 Treads	1 Piece Rail, 14 feet
1 Square End Step	1 Piece Return Nosing, 10 feet
2 Landing Treads	60 Wedges
1 Starting Newel	60 Linear feet Cove
1 Angle Newel	40 Linear feet Wall Mold

10-F-856 Price, Yellow Pine.....	\$41.22	Stringers Housed	\$51.53
10-F-857 Price, Red Oak.....	66.15	Stringers Housed	82.69

Material for Stairway Above

All material to complete the stairway above furnished as follows:
For stairway opening 3 ft. wide; height from finished first floor to finished second floor about 9 ft.

2 Stringers, 16 feet	1/2 Angle Newel
15 Risers	40 Linear feet Wall Mold
12 Treads	60 Linear feet Cove
1 Double End Tread	60 Wedges
2 Landing Treads	10 Linear feet Return Nosing
2 Starting Newels	1 Rail, 16 feet
1 Starting Newel	120 Linear feet, 1 1/2 x 1 1/2 inch
1 Angle Newel	Stringers not Housed

10-F-858 Price, Yellow Pine.....	\$52.75	Stringers Housed	\$65.94
10-F-859 Price, Red Oak.....	79.65	Stringers Housed	99.56

YOUR CHOICE OF OAK OR YELLOW PINE



Stair Balusters

1 1/4 inches thick, 28 or 32 inches long.

10-F-118



Smoothly Finished

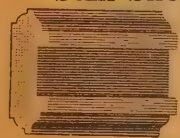
No. 10-F-652 Also supplied in long lengths.

1 1/2 in. x 1 1/2 in. Yellow Pine \$1.95 per 100.
1 1/2 in. x 1 1/2 in. Red Oak \$3.45 per 100.

10-F-652

Cat. No.	Length 28 Inches	Length 32 Inches
1 1/4 ins. thick	Y-P. Oak	Y-P. Oak
10-F-118	\$0.20 \$0.25	\$0.22 \$0.27
10-F-652	.14 .20	.15 .21

Stair Shoe and Fillet



1/2 x 2 3/4 inches
10-F-157. Rab-
beted Shoe. Per
lineal foot.
Yellow Pine. 3c
Oak. 6c

3/4 x 1 1/4 inches.
10-F-158. Fillet.
Per lineal foot.
Yellow Pine. 2c
Oak. 3 1/2c

Be sure to specify size of rabbet or balusters when ordering above.

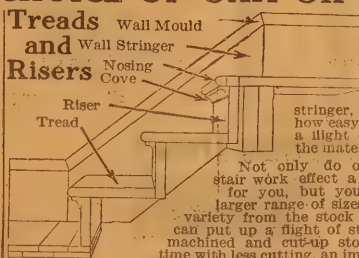


Illustration to the left shows a sectional view of our stair treads, risers, stringer, etc., showing how easy it is to put up a flight of stairs from the material we quote.

Not only do our prices on stair work effect a great saving for you, but you can build a larger range of sizes and a larger variety from the stock we list. You can put up a flight of stairs from our machined and cut-up stock in quicker time with less cutting, an important labor-saving feature.

Prices of Treads and Risers

Surfaced, cut smooth and nosed front. Clear Stock.

Number	Ins. Sizes Ft.	Y-P.	Oak
10-F-666. Riser	3/4 x 7 1/2 x 3	\$0.25	\$0.45
10-F-678. Riser	3/4 x 7 1/2 x 3 1/2	.29	.54
10-F-679. Riser	3/4 x 7 1/2 x 4	.35	.59
10-F-668. Tread	1 1/2 x 11 1/2 x 3	.66	1.02
10-F-682. Tread	1 1/2 x 11 1/2 x 3 1/2	.72	1.16
10-F-683. Tread	1 1/2 x 11 1/2 x 4	.83	1.30

Stair Railing



10-F-2040. 1 1/4 x 3 1/4 inches.
Prices per lineal foot.
Yellow Pine. 18c
Red Oak. 24c
Add 2c per foot if rabbeted for 1 1/4 in. or 1 1/2 in. Balusters.

10-F-2047. 2 3/4 x 3 1/4 inches.
Prices per lineal foot.
Yellow Pine. 26c
Oak. 37c

Quarter Circle Step

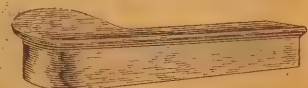


Furnished Complete as Illustrated Built—Ready to Set in Place.

Quarter Circle Step—Furnished Right or Left Hand Return. Illustration shows right hand return. Prices for Sizes up to 4 ft. (Width of Stairs).

No.	Description	Wood	Price Each
10-F-672	R. H. Return	Clear Y.P.	\$5.95
10-F-673	L. H. Return	Clear Y.P.	5.95
10-F-674	R. H. Return	Clear Oak	7.60
10-F-675	L. H. Return	Clear Oak	7.60

Half Circle Step



Furnished Complete as Illustrated Built—Ready to Set in Place.

Half Circle Step—Furnished Right or Left Hand Return. Illustration shows left hand return. Prices for Sizes up to 4 ft. (Width of Stairs).

No.	Description	Wood	Price Each
10-F-660	L. H. Return	Clear Y.P.	\$7.20
10-F-661	R. H. Return	Clear Y.P.	7.20
10-F-662	L. H. Return	Clear Oak	9.20
10-F-663	R. H. Return	Clear Oak	9.20

HIGH GRADE COLONIAL COLUMNS

PERGOLAS FOR GARDENS AND LAWNS

A modern neatly designed well constructed pergola will add a touch of distinctive beauty and completeness to your grounds. Numerous elegant designs are available from our big complete stocks of pergola material. We are equipped to develop your own ideas and interpret them in such designs as you have in mind in terms of practical construction.

The pergola illustrated on this page is a popular design which can be delivered at surprisingly low cost. Made up complete of clear Fir comprising 8 square columns 8 feet high and 8 inches square at base tapering to top, scroll cut top beams and lattice covering. Distances between all pillars, 8 feet. Total length 28 feet overall. Weight, about 750 pounds.

Price of pergola as illustrated complete, in the white (natural wood).....

\$66.50

If round columns are wanted they can be furnished at same price. Specify round columns if wanted.

10-F-611. Pergola consists of the following material:

4 pieces, 2x8, 18' Band Sawed one end, to be spliced to make 28 feet.

4 pieces, 2x6, 10' Band Sawed one end, to be spliced to make 28 feet.

13 pieces, 2x4, 12' Band Sawed two ends, Cross Rafter.

30 pieces, 1/2x1 1/2, 14', S4S Lattice Strips. 8 Colonial Columns, 8x8, 8 ft. round or square, main columns.



10-F-531
Roman Ionic
Cap



10-F-532
Corinthian
Cap



10-F-533
Colonial
Cap



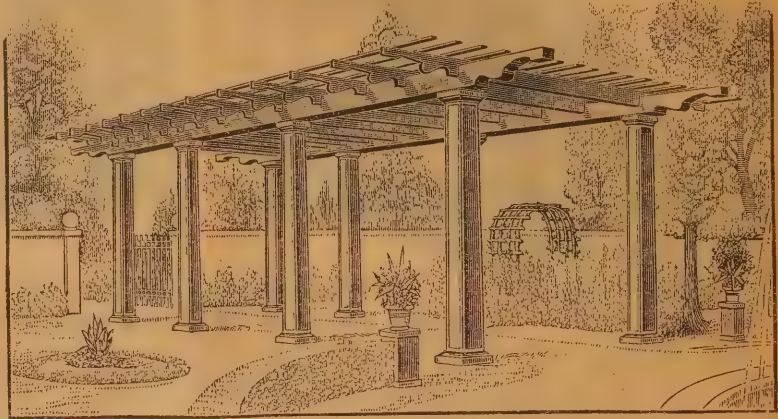
10-F-110



10-F-210



10-F-109



PRICES OF COLONIAL COLUMNS

Diam. of Shaft, Inches	Length Feet	10-F-110 Plain Shaft as illustrated	10-F-210 Half Fltd. as illustrated	10-F-109 Full Fltd. as illustrated	Shipping Weight, Lbs.
6x6	6	\$2.50	\$3.65	\$3.80	30
6x6	8	2.74	3.89	4.04	35
6x6	9	2.96	4.11	4.26	38
8x8	6	3.05	4.20	4.35	40
8x8	8	3.38	4.53	4.68	48
8x8	9	3.91	5.06	5.21	50
8x8	10	4.40	5.49	5.70	54
10x10	6	4.34	5.69	5.84	55
10x10	8	4.54	6.00	6.24	62
10x10	9	5.16	6.31	6.46	68
10x10	10	5.78	6.93	7.08	72
12x12	6	5.75	6.50	6.65	64
12x12	8	6.57	7.72	7.87	68
12x12	9	7.64	8.79	8.94	72
12x12	10	8.85	10.00	10.15	75

Our round Colonial columns are built up from Clear Selected Fir, improved lock joint construction.

COMPOSITION CAPS

All prices listed on this page are for Columns complete with Plain Colonial Cap 10-F-533, and base as shown. Add extra for Composition Cap as follows:

COMPOSITION CAPS EXTRA

For Size of Column, any length	Scamozzi Cap 10-F-530	Roman Ionic Cap 10-F-531	Roman Corinthian Cap 10-F-532
6 inch column	\$2.17	\$2.87	\$3.72
8 inch column	2.71	3.49	5.43
10 inch column	4.26	5.58	7.21
12 inch column	6.51	8.37	10.15

INTERIOR TRIMMINGS

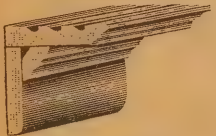


Plate Rail

10-F-340. Furnished in clear Selected Yellow Pine or Oak. Three member. Projection from wall 4 1/4 inches. Height over all 4 1/2 inches. Yellow Pine, per lineal ft. 12c Oak, per lineal ft. 24c



Hardwood Thresholds

10-F-154. 5/8x3 1/4 inches. Clear Oak, length 3 feet. Price, each..... 16c



Folding Door Astragal

10-F-8449. 8 feet long. Folding Door Astragal, rabbetted, 1 1/2 inches. Yellow Pine, each... \$0.75 Oak, each..... 1.25

10-F-8449. 8 feet long. Folding Door Astragal, rabbetted 1 1/4 inches. Yellow Pine, each... \$0.75 Oak, each..... 1.25



Round Edge Corner Bead

10-F-541. 1 1/2x1 1/2 inches. Yellow Pine. Price, per 100 lineal feet..... \$4.95
10-F-542. 1 1/2x1 1/2 inches. Red Oak. Price, per 100 lineal feet..... \$7.95

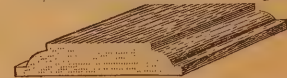


Plaster Panel Mould

Very popular for paneling plastered walls.

Prices per 100 lineal feet
10-F-931. Clear Yellow Pine, 1/2x1 1/4 in. \$1.50
10-F-931. Clear Fir, 1/2x1 1/4 in. \$1.65
10-F-931. Clear Red Oak, 1/2x1 1/4 in. \$3.00
10-F-931. Clear Birch, 1/2x1 1/4 in. \$3.40

Moulded Panel Strips

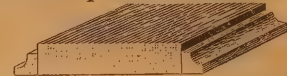


Moulded Panel Moulding—used for Wall Board Panels, or decorative paneling of any kind.

Prices per 100 lineal feet

10-F-932. Clear Yellow Pine, size 1/2x2 1/2 in. \$2.20
10-F-932. Clear Fir, size, 1/2x2 1/2 in. 2.34
10-F-932. Clear Red Oak, size, 1/2x2 1/2 in. 4.50
10-F-932. Clear Birch, size, 1/2x2 1/2 in. 4.95

Three Member Flat Panel Strips With Separate Cove Mould



3 Member Combination Flat and Cove Panel Moulding for Wall Board or any kind of decorative paneling. Easiest to apply, no "coping" necessary—simply square cut the panel strip and miter the cove—neat, practical and easy. It is furnished in 3 members—the flat strip and the two pieces of small cove.

Prices per 100 ft. all 3 members combined

10-F-933. Clear Yellow Pine, size of flat panel strip, 1/2x2 1/2 in., size of cove, 1/2x1 1/4 in. \$3.80
10-F-933. Clear Fir, size of flat panel strip, 1/2x2 1/2 in., size of cove, 1/2x1 1/4 in. \$4.10
10-F-933. Clear Red Oak, size of flat panel strip, 1/2x2 1/2 in., size of cove, 1/2x1 1/4 in. \$6.50
10-F-933. Clear Birch, size of flat panel strip, 1/2x2 1/2 in., size of cove, 1/2x1 1/4 in. \$6.95

Clear Fir Porch and Outside Trim

Wood Porch Post and Newels

Made of
CLEAR SOFT OREGON FIR
SIZE AND PRICE No. 10-F-113

Size	8 ft.	9 ft.	10 ft.
4x4 inches.....	\$1.13	\$1.27	\$1.41
5x5 inches.....	1.77	1.99	2.21
6x6 inches.....	2.55	2.86	3.18

NEWELS

Size	10-F-112	10-F-114	10-F-115
4x4 in., 4 ft.....	\$0.57	\$0.57	
5x5 in., 4 ft.....		0.88	0.88
6x6 in., 4 ft.....	\$2.00	1.27	1.27
8x8 in., 4 ft.....	2.23		



On this page you will find listed and described all of the finished material that goes into the construction of porches. You might also be interested in the material on the preceding page which is also used in modern porches and any one interested in building a new home or remodeling their old home can readily make their selections from these pages. This material is all strictly brand new stock of clear lumber used in the construction of finest porches. Lumber can also be furnished by us at greatly reduced prices and we advise you to send us your porch material list for our lowest quotation.

Square Built Up Columns and Newels

Made of
CLEAR SOFT OREGON FIR

Sizes and Prices of No.

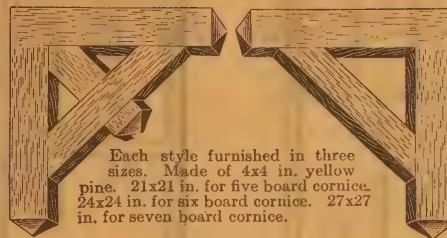
Length	10-F-520	10-F-521	10-F-522
8x8 in., 10x10 in., 12x12 in.			
6 ft.	\$3.05	\$3.67	\$4.43
8 ft.	3.66	4.39	5.38
9 ft.	4.05	4.81	6.19
10 ft.	4.39	5.83	6.95

BUILT-UP NEWELS

10-F-2227 Price, each 6x6 in., 4 ft. long.....\$2.35
10-F-521 Price, each 8x8 in., 4 ft. long.....\$2.25
10x10 in., 4 ft. long.....2.65



Eaves Brackets



Each style furnished in three sizes. Made of 4x4 in. yellow pine. 21x21 in. for five board cornice. 24x24 in. for six board cornice. 27x27 in. for seven board cornice.

10-F-620

Size	Each
21 inches.....	\$2.43
24 inches.....	2.57
27 inches.....	2.91

10-F-621

Size	Each
21 inches.....	\$2.12
24 inches.....	2.26
27 inches.....	2.60

Rafter Ends

10-F-594



10-F-591



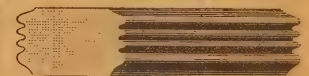
Made from
2x4 and 2x6 stock,
dressed 4 sides selected
Oregon Fir or Short Leaf
Yellow Pine.

Length	2 ft.	4 ft.	5 ft.	6 ft.
10-F-591	2x4 in 45c	2x4 in 62c	2x6 in 77c	2x4 in 73c
10-F-594	2x4 in 43c	2x4 in 60c	2x6 in 75c	2x4 in 71c
				2x6 in 85c
				2x4 in 77c
				2x6 in 99c
				2x4 in 75c
				2x6 in 97c



10-F-146 Top Rail

1 1/2 x 3 1/2 In. Per 100 lineal ft.....\$5.50



10-F-147 Bottom Rail

1 1/2 x 3 1/2 In. Per 100 lineal ft.....\$5.50



TOP and BOTTOM RAIL

Rabbeted 1/8-Inches

10-F-560 Top Rail

1 1/2 x 3 1/2 In. Per 100 lineal ft.....\$5.70

10-F-561 Bottom Rail

1 1/2 x 3 1/2 In. Per 100 lineal ft.....3.35



10-F-606 COLONIAL TOP RAIL

Extra Heavy

2 1/4 x 3 1/2 In. Per 100 lineal ft.....\$10.65



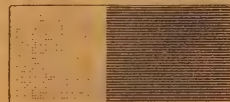
10-F-607 COLONIAL BOTTOM RAIL

Extra Heavy

1 1/2 x 3 1/2 In. Per 100 lineal ft.....\$5.70

Porch Baluster Stock

Our porch baluster stock furnished in lineal feet is all clear, soft Oregon fir correctly sized and well machined.



Clear Fir

10-F-556

Square Baluster Stock Surfaced All Sides

1 1/2 x 1 1/2 in., per 100 lineal feet.....	\$1.60
1 3/4 x 1 3/4 in., per 100 lineal feet.....	1.90
1 7/8 x 1 7/8 in., per 100 lineal feet.....	3.75

Cut to lengths at 50c per 100 ft. extra.



Clear Fir

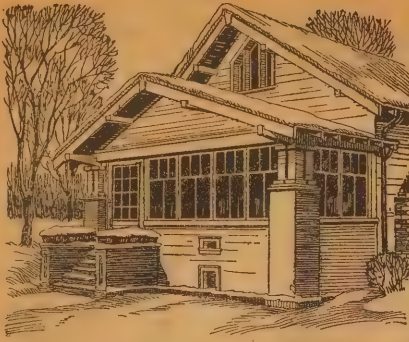
10-F-152

Baluster Stock, 1 1/2 x 1 1/2 inches. Per 100 lineal feet.....\$2.25

10-F-151

Baluster Stock, 1 3/4 x 1 3/4 inches. Per 100 lineal feet.....3.60

Sash and Screens for Enclosed Porches and Sun Parlors



Build your own enclosed all weather porches, with our standard size sash and screens, you will save half and make a first class job

Here, Mr. Handy Man, is a chance for you to get a large variety in sizes and pretty designs of porch sash. Just think of it—16 sizes to select from, will make a good fit on almost any size porch. These sash are best quality, made of CLEAR WHITE PINE well tenoned, mortised and pinned, just the same as all our high grade regular windows and storm sash. Sash are made with 2-inch face top rail, 2-inch face side stile and 3-inch face bottom rail, all bars between glass are 1/2 inch. Thickness, 1 1/2 inches. All sash are smoothly sanded and shipped to you in the white (natural wood).

Porch Screens for Same

Screens are made in same standard sizes and quality as porch sash. Screens are offered in Black, Galvanized and Copper wire. Frame made of clear White Pine and will be furnished painted black (for your convenience) unless natural, unpainted, frames are especially specified when ordering. It is a simple task to build porch frames, fit both the sash, and screens to fill openings. Do the work in leisure time and save half the cost; get wonderful comfort and convenience from your porch by having it glazed in winter and screened in summer. It will add greatly to the value of your property.

Clear White Pine Porch Sash and Screens—1 1/8 Inch Thick



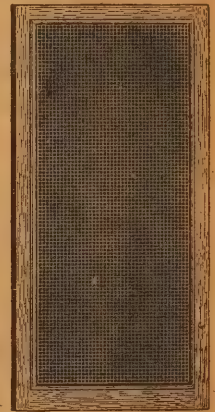
10-F-1231
6 Light Porch Sash



10-F-1230
5 Light Porch Sash



10-F-1234
4 Light Porch Sash



10-F-1237-8-9
1 Light Porch Screens

PORCH SASH Outside Measure		6 Light Porch Sash 10-F-1231 Price, Each Glazed	5 Light Porch Sash 10-F-1230 Price, Each Glazed	4 Light Porch Sash 10-F-1234 Price, Each Glazed	PORCH SCREENS 10-F-1237 Black Wire Standard	PORCH SCREENS 10-F-1238 Galv. Wire 14 Mesh	PORCH SCREENS 10-F-1239 Copper Wire 16 Mesh
Wide	High						
2'-0"	4'-0"	\$1.76	\$1.91	\$1.74	\$1.15	\$1.27	\$2.00
2'-2"	4'-0"	2.02	2.10	1.94	1.21	1.30	2.05
2'-4"	4'-0"	2.30	2.18	2.09	1.36	1.37	2.15
2'-6"	4'-0"		2.44	2.19		1.40	2.20
2'-0"	4'-6"	1.98	2.13	1.92	1.21	1.37	2.15
2'-2"	4'-6"	2.23	2.28	2.05	1.36	1.43	2.25
2'-4"	4'-6"	2.46	2.34	2.29	1.36	1.49	2.35
2'-6"	4'-6"		2.61			1.52	2.40
2'-0"	5'-0"	2.11	2.31	2.09	1.32	1.43	2.25
2'-2"	5'-0"	2.34	2.51	2.23	1.37	1.49	2.35
2'-4"	5'-0"	2.60	2.57	2.40	1.43	1.55	2.45
2'-6"	5'-0"		2.85	2.62	1.46	1.59	2.50
2'-0"	5'-6"	2.21	2.46	2.12	1.35	1.52	2.40
2'-2"	5'-6"	2.35	2.67	2.37	1.40	1.59	2.50
2'-4"	5'-6"	2.53		2.56	1.46	1.65	2.60
2'-6"	5'-6"			2.81	1.51	1.72	2.70

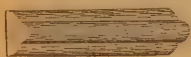
Weight average about 25 pounds per sash.

Other sizes made to order.

Weight average about 10 pounds per screen.

Clear White Pine Window Screen Frame Material

For the man who makes his own screens



SCREEN MOULDING

10-F-8611. Screen moulding for covering screen wire where it is nailed to edges of stiles and rails. Size, 1/4 x 3/4 inches. Price, per lineal foot..... 1c



CENTER RAIL

10-F-600. Used for center rail of screen frames. Size, 1/4 x 1 1/4 inches. Price, per lineal foot..... 1 1/2c
Size, 1 1/4 x 1 1/4 inches. Price, per lineal foot..... 2c



TOP AND SIDE RAIL

10-F-595. Top and side rail for making screen frames. Size, 3/4 x 1 1/4 inches. Price, per lineal ft..... 2 1/4c
Size, 1 1/4 x 1 1/4 inches. Price, per lineal foot..... 3 1/2c



BOTTOM RAIL

10-F-596. Used for bottom rail of screen frames. Size, 3/4 x 2 3/4 inches. Price, per lineal foot..... 3c
(Also used for bottom rail of half screens.)
Size, 1 1/4 x 2 3/4 inches. Price, per lineal foot..... 5c



10-F-603. Grooved side rails for half screens. Size, 3/4 x 1 1/4 inches. Price, per lineal foot..... 2 1/2c

SLIDE STRIPS

10-F-602. Slide strips for side rails of half screens. Size, 1/4 x 3/4 inches. White Pine. Price, per lineal foot..... 1c

Harris "Presto-Change" Screen Storm Doors

Two Doors at The Price of One
Quickly and Easily Changed to a Storm
Door in Winter—a Screen Door in Summer

These are genuine "Presto-Change" combination doors with the patented quick change locking device, rattle and fool-proof, not the kind of doors where sections are fastened with hooks and eyes. Our splendid combination doors feature latest and best construction—tight joints smoothly sanded. Cost no more, but are much better. Once hung always hung—no tools needed to make change.

Our Combination Doors have reduced the changing time to a few minutes, and it is so simple that a child can make the change. Cannot be tampered with from outside.

The removable sections and openings in door are both rabbetted so that when section is in place there is a double lap joint which, together with improved patented fasteners, makes the door dustproof and weather-proof. Patented Quick Change Locking Device. Our improved patented fastener holds the sections securely in place—fly-proof, dust and weather-proof. Doors are quickly changed within a few moments.

Furnished Complete as shown with Glazed Storm and Wired Screen Sections.

"Leader" Door

Made of White Pine Lumber. The opening for the storm and screen sections is 43 3/4 inches high in all width doors. The storm section is divided into four (4) lights, and is glazed, while the Screen Section is covered with standard mesh Black Wire. We carry these doors in stock. PAINTED GRAY ONLY. 1 1/4 inch thick. Weight 70 lbs.

Prices of "Leader" "Presto-Change" Door

Regular Door Size ft. in. ft. in.	Presto-Change Door Size ft. in. ft. in.	Price, each Painted Gray 10-F-1753
2- 6x6- 6	2- 6 3/4 x6- 7 1/4	\$5.83
2- 8x6- 8	2- 8 3/4 x6- 9 1/4	\$5.98
2- 8x7- 0	2- 8 3/4 x7- 1 1/2	6.08
2-10x6- 8	2-10 3/4 x6- 9 1/4	6.18
2-10x6-10	2-10 3/4 x6-11 1/2	6.22
2-10x7- 0	2-10 3/4 x7- 1 1/2	6.26
3- 0x6- 8	3- 0 3/4 x6- 9 1/4	6.43
3- 0x7- 0	3- 0 3/4 x7- 1 1/2	6.48

"Favorite" Door

"FAVORITE" and "SUPREME" are made of CLEAR WHITE PINE 1 1/4 in. thick. Galvanized screen wire is used on screen section. Storm sections glazed with best grade of putty. The opening for the storm and screen sections is 4 feet 8 1/2 inches high in all size doors. Weight 75 lbs.

Prices of "Favorite" Presto-Change Door

Regular Door Size ft. in. ft. in.	Presto Change Door Size ft. in. ft. in.	Price, each Natural Wood 10-F-1751
2- 8x6- 8	2- 8 3/4 x6- 9 1/4	\$6.94
2- 8x7- 0	2- 8 3/4 x7- 1 1/2	7.04
2-10x6- 8	2-10 3/4 x6- 9 1/4	7.09
2-10x6-10	2-10 3/4 x6-11 1/2	7.13
2-10x7- 0	2-10 3/4 x7- 1 1/2	7.17
3- 0x6- 8	3- 0 3/4 x6- 9 1/4	7.43
3- 0x7- 0	3- 0 3/4 x7- 1 1/2	7.48

"Supreme" Door

Prices of "Supreme" Presto-Change Door

Regular Door Size ft. in. ft. in.	"Supreme" Door Size ft. in. ft. in.	Price, each Natural Wood 10-F-1750
2- 8x6- 8	2- 8 3/4 x6- 9 1/4	\$6.78
2- 8x7- 0	2- 8 3/4 x7- 1 1/2	6.87
2-10x6- 8	2-10 3/4 x6- 9 1/4	6.93
2-10x6-10	2-10 3/4 x6-11 1/2	7.02
2-10x7- 0	2-10 3/4 x7- 1 1/2	7.05
3- 0x6- 8	3- 0 3/4 x6- 9 1/4	7.25
3- 0x7- 0	3- 0 3/4 x7- 1 1/2	7.29

\$5⁸³
and
up

"LEADER"—10F1753

\$6⁹⁴
and
up

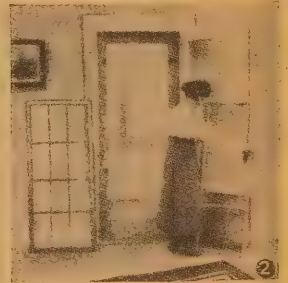
"FAVORITE"—10F1751

\$6⁷⁸
and
up

"SUPREME"—10F1750



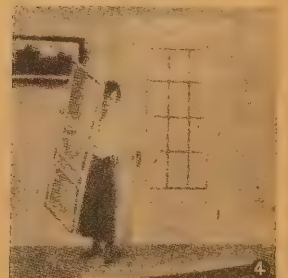
The door is hung like any regular door—once hung always hung



To change merely turn four fasteners, take out storm section and put in screen section



No lost screws, hinges or unsightly screw holes from hanging separate storm and screen doors



Interchangeable section easy to put away for the winter or summer—can be stored in a closet

Storm Sash—Clear Soft White Pine

A Word About Quality

We manufacture right here at our Main Plant in Chicago, tremendous stocks of storm sash and millwork of all kinds. From the very first, we believed that a storm sash should be made just as good in quality and workmanship as a regular window, instead of the second grade sappy lumber usually used, for the reason that storm sash really get more abuse than any window in your own house because the storm sash is handled rougher, being taken down, put up and stored away every year, therefore, subject to more abuses. We permit no blue, sappy, or mixed woods, but only first grade clear White Pine, the Pine that lasts longest—sell them to you for less money than many second grades offered on the market.

Our storm sash are made of clear White Pine, standard thickness $1\frac{1}{4}$ inches, glazed with clear machine made American glass of uniform thickness, better strength than generally used for storm sash purposes. We use zinc rust-proof points to hold the glass in place and best quality putty to fill deep putty rabbet.

All our storm sash are smoothly sanded, and shipped to you in the white (natural wood).



2-Light No. 10-F-89

Size of Glass	Will Fill Opening Wd. Ht. ft. in. ft. in.	Price Glazed 10-F-89	Size of Glass	Will Fill Opening Wd. Ht. ft. in. ft. in.	Price Glazed 10-F-89	Size of Glass	Will Fill Opening Wd. Ht. ft. in. ft. in.	Price Glazed 10-F-89
12x20	1-4 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	\$1.19	20x26	2-0 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	\$1.79	28x20	2-8 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	\$1.96
12x22	1-4 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.28	20x28	2-0 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	1.87	28x22	2-8 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	2.11
12x24	1-4 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.34	20x30	2-0 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.05	28x24	2-8 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	2.24
12x26	1-4 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	1.40	20x32	2-0 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	2.13	28x26	2-8 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	2.35
12x28	1-4 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	1.46	20x34	2-0 $\frac{1}{2}$ x6-3 $\frac{1}{2}$	2.37	28x28	2-8 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.41
12x30	1-4 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	1.66				28x30	2-8 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.41
14x20	1-6 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.28	22x18	2-2 $\frac{1}{2}$ x3-7 $\frac{1}{2}$	1.60	28x32	2-8 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	3.01
14x22	1-6 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.40	22x20	2-2 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.65	28x34	2-8 $\frac{1}{2}$ x6-3 $\frac{1}{2}$	3.26
14x24	1-6 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.43	22x22	2-2 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.82			
14x26	1-6 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	1.48	22x24	2-2 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.83			
14x28	1-6 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	1.67	22x26	2-2 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	1.91			
14x30	1-6 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	1.75						
16x16	1-8 $\frac{1}{2}$ x3-3 $\frac{1}{2}$	1.24	22x28	2-2 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.03	30x20	2-10 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	2.05
16x18	1-8 $\frac{1}{2}$ x3-7 $\frac{1}{2}$	1.30	22x30	2-2 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.18	30x22	2-10 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	2.17
16x20	1-8 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.36	22x32	2-2 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	2.41	30x24	2-10 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	2.18
16x22	1-8 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.51	22x34	2-2 $\frac{1}{2}$ x6-3 $\frac{1}{2}$	2.50	30x26	2-10 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	2.41
16x24	1-8 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.51	22x36	2-2 $\frac{1}{2}$ x6-7 $\frac{1}{2}$	2.65	30x28	2-10 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.44
16x26	1-8 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	1.70				30x30	2-10 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.74
16x28	1-8 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	1.78	24x18	2-4 $\frac{1}{2}$ x3-7 $\frac{1}{2}$	1.60	30x32	2-10 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	3.01
16x30	1-8 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.05	24x20	2-4 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.66	30x34	2-10 $\frac{1}{2}$ x6-3 $\frac{1}{2}$	3.29
16x32	1-8 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	2.15	24x22	2-4 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.82	30x36	2-10 $\frac{1}{2}$ x6-7 $\frac{1}{2}$	3.56
16x34	1-8 $\frac{1}{2}$ x6-3 $\frac{1}{2}$	2.23	24x24	2-4 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.91			
16x36	1-8 $\frac{1}{2}$ x6-7 $\frac{1}{2}$	2.23	24x26	2-4 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	1.91	32x24	3-0 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	2.56
18x20	1-10 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.46	24x28	2-4 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.02	32x26	3-0 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	2.59
18x22	1-10 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.70	24x30	2-4 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.18	32x28	3-0 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.90
18x24	1-10 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.79	24x32	2-4 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	2.50	32x30	3-0 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	3.01
18x26	1-10 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	1.87	24x34	2-4 $\frac{1}{2}$ x6-3 $\frac{1}{2}$	2.65	32x36	3-0 $\frac{1}{2}$ x6-7 $\frac{1}{2}$	3.64
18x28	1-10 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.00	24x36	2-4 $\frac{1}{2}$ x6-7 $\frac{1}{2}$	2.74			
18x30	1-10 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	2.00				34x26	3-2 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	2.98
18x32	1-10 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	2.14				34x28	3-2 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	3.26
						34x30	3-2 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	3.51
20x16	2-0 $\frac{1}{2}$ x3-3 $\frac{1}{2}$	1.31	26x16	2-6 $\frac{1}{2}$ x3-3 $\frac{1}{2}$	1.70			
20x18	2-0 $\frac{1}{2}$ x3-7 $\frac{1}{2}$	1.40	26x20	2-6 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.79	36x24	3-4 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	2.66
20x20	2-0 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	1.50	26x22	2-6 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.94	36x26	3-4 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	2.99
20x22	2-0 $\frac{1}{2}$ x4-3 $\frac{1}{2}$	1.50	26x24	2-6 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.95	36x28	3-4 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	3.20
20x24	2-0 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.71	26x26	2-6 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	2.03	36x30	3-4 $\frac{1}{2}$ x5-7 $\frac{1}{2}$	3.59
						36x32	3-4 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	3.64
						40x26	3-8 $\frac{1}{2}$ x4-11 $\frac{1}{2}$	3.57
						40x28	3-8 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	3.57

We can furnish above size storm sash changed to 4 lights, like our No. 10-F-91 below, at 50c per sash extra.

4 Light Storm Sash

$1\frac{1}{4}$ inches thick, made from Clear Soft Pine and carried in stock in the following sizes, only:

No. 10-F-91 Size of Glass	Will Fill Opening Width Height ft. in. ft. in.	Price Glazed
10x20	2-1x3-11 $\frac{1}{2}$	\$1.67
10x22	2-1x4-3 $\frac{1}{2}$	1.75
10x24	2-1x4-7 $\frac{1}{2}$	1.82
10x26	2-1x4-11 $\frac{1}{2}$	1.96
10x28	2-1x5-3 $\frac{1}{2}$	1.97
10x30	2-1x5-7 $\frac{1}{2}$	2.25
10x32	2-1x5-11 $\frac{1}{2}$	2.59
12x20	2-2x3-11 $\frac{1}{2}$	1.77
12x22	2-2x4-3 $\frac{1}{2}$	1.87
12x24	2-2x4-7 $\frac{1}{2}$	1.88
12x26	2-2x4-11 $\frac{1}{2}$	1.99
12x28	2-2x5-3 $\frac{1}{2}$	2.06
12x30	2-2x5-7 $\frac{1}{2}$	2.44
12x32	2-2x5-11 $\frac{1}{2}$	2.69
12x34	2-2x6-3 $\frac{1}{2}$	2.80
12x36	2-2x6-7 $\frac{1}{2}$	2.92
14x20	2-2x3-11 $\frac{1}{2}$	1.97
14x22	2-2x4-3 $\frac{1}{2}$	2.14
14x24	2-2x4-7 $\frac{1}{2}$	2.15
14x26	2-2x4-11 $\frac{1}{2}$	2.23
14x28	2-2x5-3 $\frac{1}{2}$	2.43
14x30	2-2x5-7 $\frac{1}{2}$	2.87
14x32	2-2x5-11 $\frac{1}{2}$	3.24
14x34	2-2x6-3 $\frac{1}{2}$	3.11
14x36	2-2x6-7 $\frac{1}{2}$	3.26
15x30	2-11x5-7 $\frac{1}{2}$	2.92
15x32	2-11x5-11 $\frac{1}{2}$	3.11

8 Light Storm Sash

$1\frac{1}{4}$ inches thick, made from Clear Soft Pine and carried in stock in the following sizes, only:

No. 10-F-93 Size of Glass	Will Fill Opening Width Height ft. in. ft. in.	Price Glazed
8x10	1-9x3-11 $\frac{1}{2}$	\$1.45
9x12	1-11x4-7 $\frac{1}{2}$	1.66
9x14	1-11x5-3 $\frac{1}{2}$	1.79
10x12	2-1x4-7 $\frac{1}{2}$	1.75
10x14	2-1x5-3 $\frac{1}{2}$	1.88
10x16	2-1x5-11 $\frac{1}{2}$	2.20
12x14	2-5x5-3 $\frac{1}{2}$	2.08
12x16	2-5x5-11 $\frac{1}{2}$	2.41
14x16	2-9x5-11 $\frac{1}{2}$	2.63

12 Light Storm Sash

$1\frac{1}{4}$ inches thick, made from Clear Soft Pine and carried in stock in the following sizes, only:

No. 10-F-92 Size of Glass	Will Fill Opening Width Height ft. in. ft. in.	Price Glazed
8x10	2-4 $\frac{1}{2}$ x3-11 $\frac{1}{2}$	\$1.72
8x12	2-4 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	1.81
9x12	2-7 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	2.03
9x14	2-7 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.29
10x12	2-10 $\frac{1}{2}$ x4-7 $\frac{1}{2}$	2.11
10x14	2-10 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.34
10x16	2-10 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	2.34
12x14	3-4 $\frac{1}{2}$ x5-3 $\frac{1}{2}$	2.92
12x16	3-4 $\frac{1}{2}$ x5-11 $\frac{1}{2}$	3.31
12x18	3-4 $\frac{1}{2}$ x6-7 $\frac{1}{2}$	3.61

10-F-92 12-Light

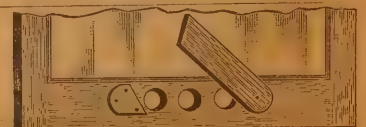
3 Light Cottage Front Storm Sash

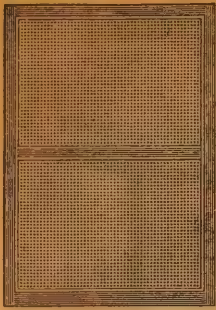
$1\frac{1}{4}$ inches thick, made from Clear Soft Pine and carried in stock in the following sizes, only:

No. 10-F-90 Size of Glass Bottom Top		Will Fill Opening Width Height ft. in. ft. in.	Price Glazed
40x42	40x14	3-8½x5-3½	\$4.92
40x40	40x16	3-8½x5-3½	4.95
40x44	40x16	3-8½x5-7½	5.34
44x40	44x16	4-0½x5-3½	5.44
44x44	44x16	4-0½x5-7½	5.80
44x48	44x16	4-0½x5-11½	5.88
44x46	44x18	4-0½x5-11½	6.00
44x50	44x18	4-0½x6-3½	6.34

10-F-90 3-Light

VENTILATORS—Customers who desire ventilators in the bottom of their storm sash will please specify so on their order and add 20c per sash extra for same.





Full Size Window Screens

GUARANTEED QUALITY

Our screens are made of CLEAR WHITE PINE lumber. Carried in stock in first quality galvanized wire, No. 14 mesh. Our screens are painted a good coat of black paint and are ready to install. You do not have the additional expense and muss of painting them. See specifications below.

All Kinds of Screens Made to Order

In the event that you do not find the size you need, remember the we manufacture right here to order for you screens of any special size at lowest prices. When ordering special size screens, measure carefully and write plainly. Give "width" first and "height" second. Screens (of any kind) made to order are not subject to cancellation or exchange.

How to Measure

Screens listed below are FULL SIZE; by that is meant they cover the whole window. Take a rule and measure the "width" first and the "height" second of the Window frame into which you want your screens to fit—ALWAYS GIVING "WIDTH" FIRST AND "HEIGHT" SECOND.

READ

Why Our Screens Are Better

Full size screens listed below, and any that may be made to order, are made of clear WHITE PINE LUMBER, 1 1/2" thick, side members 2" wide, top members 2" wide, bottom member 3" wide, center bar 1 1/2"x1 1/2".

Ours is a moulded screen; that is—the woodwork is neatly moulded so the finished product is much superior in appearance to the ordinary square stock screen. Our black wire is best quality black, standard mesh. Galvanized wire is Electro-Galvanized 14 mesh. Copper bronze wire is 16 mesh.

We "drum" stretch all our wire with patented stretching machines and fasten same with "Acme" tinned staples. These stretch hold down three to four mesh each and are much superior to ordinary tacks.

All our screens are shipped painted one coat black. Galvanized and Copper Bronze wire screens can, however, be furnished unpainted at the same price if specially so ordered by customers who expect to paint their screens a color other than black.

Size of Screen Over All Measurement			Black Wire Standard 10-F-527	Galv. Wire 14 mesh 10-F-528	Copper Wire 16 mesh 10-F-529	Size of Screen Over All Measurement			Black Wire Standard 10-F-527	Galv. Wire 14 mesh 10-F-528	Copper Wire 16 mesh 10-F-529	Size of Screen Over All Measurement			Black Wire Standard 10-F-527	Galv. Wire 14 mesh 10-F-528	Copper Wire 16 mesh 10-F-529
Width Ft. In.	Ht. Ft. In.		Price Each	Price Each	Price Each	Width Ft. In.	Ht. Ft. In.		Price Each	Price Each	Price Each	Width Ft. In.	Ht. Ft. In.		Price Each	Price Each	Price Each
1-4 1/4x3-11 1/4			\$.93	\$1.08	\$1.70	2-2 1/4x3-11 1/4			\$1.18	\$1.30	\$2.05	2-0 1/4x3-11 1/4			\$1.32	\$1.45	\$2.30
1-4 1/4x4-7 1/2			1.04	1.15	1.80	2-2 1/4x4-7 1/2			1.30	1.43	2.25	2-0 1/4x4-7 1/2			1.38	1.52	2.40
1-4 1/4x4-11 1/2			1.10	1.21	1.90	2-2 1/4x4-11 1/2			1.43	1.55	2.35	2-0 1/4x4-11 1/2			1.47	1.62	2.55
1-4 1/4x5-3 1/2			1.12	1.23	1.95	2-2 1/4x5-3 1/2			1.41	1.53	2.35	2-0 1/4x5-3 1/2			1.53	1.68	2.60
1-4 1/4x5-7 1/2			1.15	1.27	2.00	2-2 1/4x5-7 1/2			1.44	1.59	2.45	2-0 1/4x5-7 1/2			1.59	1.75	2.65
1-6 1/4x3-11 1/4			1.01	1.11	1.75	2-4 1/4x3-7 1/2			1.18	1.30	2.05	2-0 1/4x5-11 1/2			1.64	1.80	2.85
1-6 1/4x4-7 1/2			1.01	1.11	1.75	2-4 1/4x3-11 1/2			1.24	1.37	2.15	2-0 1/4x5-11 1/2			1.70	1.87	2.95
1-6 1/4x4-11 1/2			1.18	1.30	2.05	2-4 1/4x4-3 1/2			1.30	1.43	2.25	2-0 1/4x5-11 1/2			1.76	1.94	3.05
1-8 1/4x3-11 1/4			1.07	1.18	1.85	2-4 1/4x4-7 1/2			1.35	1.49	2.35	2-10 1/4x4-7 1/2			1.50	1.65	2.60
1-8 1/4x4-7 1/2			1.15	1.27	2.00	2-4 1/4x4-11 1/2			1.41	1.55	2.45	2-10 1/4x4-11 1/2			1.56	1.72	2.70
1-8 1/4x4-11 1/2			1.15	1.27	2.00	2-4 1/4x5-3 1/2			1.47	1.62	2.55	2-10 1/4x5-3 1/2			1.67	1.84	2.80
1-8 1/4x5-3 1/2			1.24	1.37	2.15	2-4 1/4x5-7 1/2			1.56	1.72	2.65	2-10 1/4x5-7 1/2			1.77	1.94	3.00
1-8 1/4x5-7 1/2			1.27	1.40	2.20	2-5 1/4x3-11 1/4			1.24	1.37	2.15	2-10 1/4x5-11 1/2			1.76	1.94	3.05
1-10 1/4x3-11 1/4			1.10	1.21	1.90	2-5 1/4x3-11 1/4			1.35	1.49	2.35	3-0 1/4x4-7 1/2			1.56	1.72	2.70
1-10 1/4x4-7 1/2			1.18	1.30	2.05	2-5 1/4x4-3 1/2			1.41	1.55	2.45	3-0 1/4x4-11 1/2			1.67	1.84	2.80
1-10 1/4x4-11 1/2			1.24	1.37	2.15	2-5 1/4x4-7 1/2			1.47	1.62	2.55	3-0 1/4x5-3 1/2			1.73	1.90	3.00
1-10 1/4x5-3 1/2			1.30	1.43	2.30	2-5 1/4x4-11 1/2			1.53	1.68	2.75	3-0 1/4x5-7 1/2			1.82	2.00	3.15
1-10 1/4x5-7 1/2			1.33	1.46	2.35	2-5 1/4x5-3 1/2			1.58	1.74	2.85	3-0 1/4x5-11 1/2			1.93	2.12	3.35
2-0 1/4x3-11 1/4			1.15	1.27	2.00	2-6 1/4x3-3 1/2			1.18	1.30	2.05	3-4 1/4x4-7 1/2			1.61	1.77	2.80
2-0 1/4x4-7 1/2			1.18	1.30	2.05	2-6 1/4x3-11 1/4			1.27	1.40	2.20	3-4 1/4x4-11 1/2			1.70	1.87	2.95
2-0 1/4x4-11 1/2			1.24	1.37	2.15	2-6 1/4x4-3 1/2			1.35	1.49	2.35	3-4 1/4x5-3 1/2			1.79	1.97	3.10
2-0 1/4x5-3 1/2			1.30	1.43	2.30	2-6 1/4x4-7 1/2			1.43	1.58	2.45	3-4 1/4x5-7 1/2			1.84	2.03	3.20
2-0 1/4x5-7 1/2			1.33	1.46	2.35	2-6 1/4x4-11 1/2			1.50	1.65	2.60	3-4 1/4x5-11 1/2			1.93	2.12	3.35
2-1 1/4x3-11 1/4			1.15	1.27	2.00	2-6 1/4x5-3 1/2			1.56	1.72	2.70	3-8 1/4x4-7 1/2			1.73	1.90	3.00
2-1 1/4x4-7 1/2			1.27	1.40	2.20	2-6 1/4x5-7 1/2			1.61	1.77	2.80	3-8 1/4x4-11 1/2			1.79	1.97	3.10
2-1 1/4x4-11 1/2			1.30	1.43	2.30	2-8 1/4x4-7 1/2			1.44	1.59	2.50	3-8 1/4x5-3 1/2			1.88	2.06	3.25
2-1 1/4x5-3 1/2			1.35	1.49	2.35	2-8 1/4x4-11 1/2			1.50	1.65	2.60	3-8 1/4x5-7 1/2			2.02	2.22	3.50
2-1 1/4x5-7 1/2			1.41	1.55	2.45	2-8 1/4x5-3 1/2			1.56	1.72	2.70	4-0 1/4x5-3 1/2			2.05	2.26	3.55
						2-8 1/4x5-7 1/2			1.61	1.77	2.80	4-0 1/4x5-7 1/2			2.13	2.34	3.70

Be Sure to Specify Kind of Wire.

Harris Superior Screen Doors

Black, Galvanized and Copper Bronze Wire

"MOBILE"

10-F-537 Made of WHITE PINE LUMBER, 1 1/2 in. thick, free and clear of knots. Mortised, tenoned, pinned and glued. The frame is painted with one coat of black, door is ready to fit and hang, and saves you the expense and muss of painting.

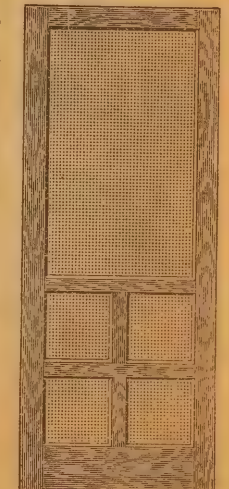
10-F-567 Made of WHITE PINE CLEAR LUMBER, 1 1/2 in. thick, no knots or defects, best workmanship. Joints mortised, tenoned, glued and pinned. The wood is covered with two coats of waterproof varnish—over the natural wood finish. No additional paint or varnish necessary.

All screen doors are made "oversize," 1/2" wider and about 1 1/2" longer to allow for fitting

Be sure and specify the kind of wire when ordering

Size of Door			Standard Black Wire 10-F-537	14 Mesh Galv. Wire 10-F-538	16 Mesh Copper Wire 10-F-539	Size of Door			Standard Black Wire 10-F-567	14 Mesh Galv. Wire 10-F-568	16 Mesh Copper Wire 10-F-569
Width Ft. In.	Ht. Ft. In.		Price Each	Price Each	Price Each	Width Ft. In.	Ht. Ft. In.		Price Each	Price Each	Price Each
2-6x6-6			\$2.88	\$3.49	\$4.57	2-6x6-6			\$3.52	\$4.11	\$5.28
2-8x6-8			2.94	3.63	4.75	2-8x6-8			3.65	4.26	5.47
2-10x6-10			3.10	3.76	4.93	2-10x6-10			3.84	4.45	5.71
2-8x7-0			3.06	3.71	4.85	2-8x7-0			3.71	4.34	5.57
2-10x7-0			3.14	3.80	4.98	2-10x7-0			3.84	4.49	5.76
3-0x7-0			3.25	3.94	5.16	3-0x7-0			3.94	4.60	5.90

"FLORIDA" 10-F-537



"MOBILE" 10-F-567

Attractive Bookcase Colonnades

Made of Clear Beautifully Grained Lumber



Impressive
Well
Arranged
Bookcase
Colonnade

This splendid colonnade will harmonize with practically any style of interior trim. It will add a touch of dignity to your home and in addition serve as a convenient bookcase or china closet.

SPECIFICATIONS: Suitable for openings from 6 feet to 12 feet wide and up to 8 feet high. Columns are 6 inches square and tapered. Pedestals are 2 feet wide by 4 feet 2 inches high. Inside depth 8 inches. Reverse side and inside ends neatly paneled.

DOORS are glazed with clear glass and set in best glazier's metal. Furnished in white (not stained or varnished). Casing, cap, trim, jambs and hardware not included.

10-F-1927. Clear Yellow Pine.....\$46.50

10-F-1928. Clear Red Oak.....51.50

Shipping weight about 250 pounds.

Hardware for above \$1.60 additional, either Lemon Brass or Antique Copper Finish.



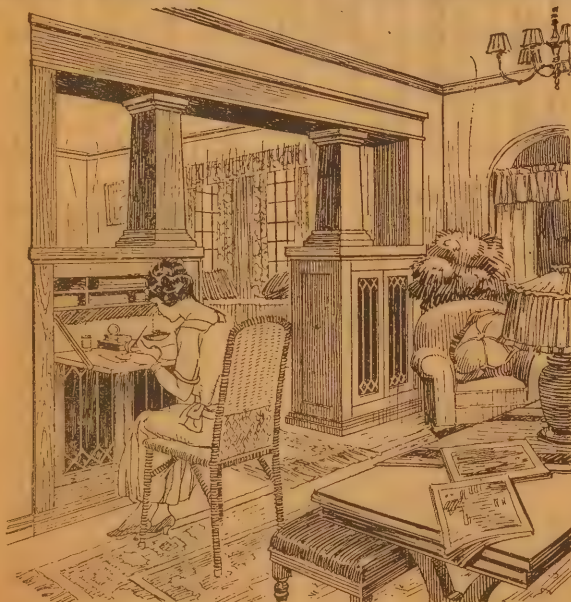
The finished appearance of the rooms in this picture is gained by the well placed colonnade. Built-in conveniences such as this are as permanent and lasting as the home itself.

For 2 sides of Trim, one set of Jambs, 5 1/4 in. wide as shown. Any size.

10-F-1927-T. Clear Yellow Pine, add.....\$5.75

10-F-1928-T. Clear Red Oak, add.....11.50

Bookcase Colonnade With Writing Desk

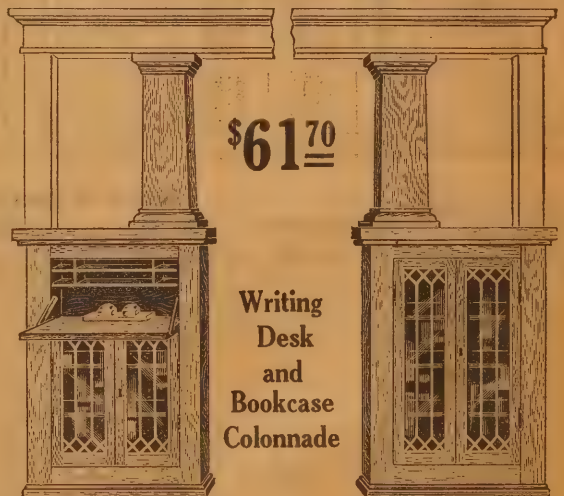


The Bookcase Colonnade does more than beautify this interior in adding a practical convenience in the writing desk, which is out of the way when not in use.

For 2 sides of Trim, one set of Jambs, 5 1/4 in. wide as shown. Any size.

10-F-1925-T. Clear Yellow Pine, add.....\$ 5.75

10-F-1926-T. Clear Red Oak, add.....11.50



\$61⁷⁰

Writing
Desk
and
Bookcase
Colonnade

Convenient colonnade with two large roomy bookcases and in it a spacious writing desk. Will make your room much more attractive.

SPECIFICATIONS: Pedestals are 2 feet 6 inches wide by 4 feet 2 inches high. Inside depth in the clear is 10 inches. Reverse side of pedestals is neatly paneled, inside ends also paneled. Made for opening up to 8 feet high, 7 to 12 feet wide.

COLUMNS are 7 inches square, 3 feet 10 inches long, and taper.

DOORS glazed clear glass, set in best glazier's metal.

Is furnished in the White (not stained or varnished). Casing, cap, trim, jambs and hardware not included.

10-F-1925. Clear Yellow Pine.....\$61.70

10-F-1926. Clear Red Oak.....67.55

Shipping weight about 250 pounds.

Hardware for above \$2.70 additional, either Lemon Brass or Antique Copper Finish.

Built-in Bookcase and Mantel Shelf



COMFORT Built-in Bookcase. No. 10-F-2105.

The Bookcases are built-in and out of the way; the long mantel shelf stretches across the room, forming an appropriate place on which to set photographs, vases, etc.

The Doors in the Bookcases are divided with wood bars and glazed with clear double strength glass. The inside depth of the bookcases is 10 inches, while the height is 54 inches. The width of each bookcase depends upon the size of the room and the width of your fireplace, ordinarily being about 36 inches to 42 inches for an average size room.

The face of Mantel Shelf is 2 3/4 inches thick and projects over the bookcases and mantel with neat brackets underneath as shown. The bookcases are equipped with adjustable shelves.

NOTE: These Prices are for the woodwork only as illustrated and do not cover tile, brickwork, hardware or finishing material.

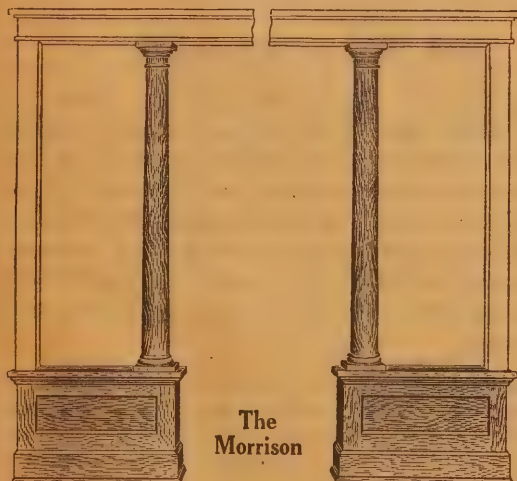
SIZES AND PRICES

Price Consisting of two Bookcases and one Mantel Shelf, as shown in illustration.

COMFORT 10-F-2105 2 Bookcases and Mantel Shelf for Room	Price, made of Clear Yellow Pine, Glazed Clear Double Strength Glass	Price, made of Red Oak or Unselected Birch, Glazed Clear Double Strength Glass
10 Feet Wide	\$77.10	\$87.00
12 Feet Wide	78.70	88.50
14 Feet Wide	80.55	89.85
16 Feet Wide	82.20	91.40

NOTE: When ordering give width of entire room, width, depth and height of fireplace. A rough pencil sketch is recommended.

Impressive Colonnades of Quality

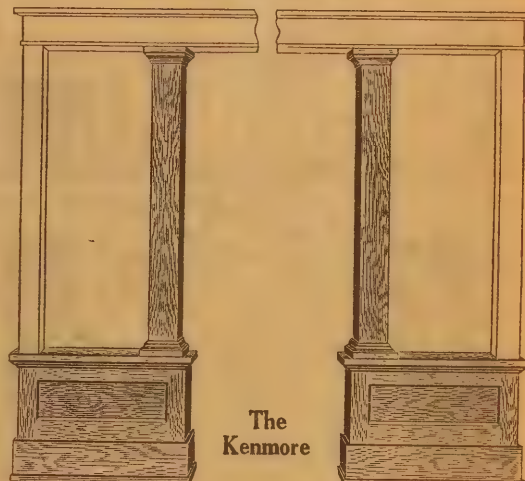


The Morrison

For openings 7 feet wide and wider. Made of select clear, kiln dried oak, yellow pine or birch. Come to you in the white (not stained or varnished).

Prices do not include baseboard casing or cap trim.

This should match the trim in your house.



The Kenmore

The pedestals project 2 feet from the jamb, they are 2 feet high and about 11 1/2 inches on face, made to fit over a 5 1/2 inch jamb. The columns are 6 inches in diameter and have a plain turned wood cap and base. The base board shown in illustration around the pedestal is not included. It should match balance of base in room.

10-F-1249. MORRISON Colonnade, 9 feet wide by 9 feet high or smaller, furnished in Clear Yellow Pine. Price..... **\$24.90**

10-F-1252. MORRISON Colonnade, 9 feet wide by 9 feet high or smaller, furnished in Oak. Price..... **\$30.45**

For two sides of trim, one set of jambs 5 1/4 inches wide, baseboard and shoe to complete opening any size.

Clear Yellow Pine, add..... **\$ 5.75**
Clear Red Oak, add..... **11.50**

Shipping weight approximately 200 pounds.

Will add big improvement to any home. The pedestals project 2 feet from the jamb; they are 2 feet high and about 11 1/2 inches on face, made to fit over a 5 1/2 inch jamb. The columns are 6 inches square and have a plain wood cap and base. The regular room base should be used around the pedestals as shown in illustration and is not included. It should match balance of base in room.

10-F-1293. KENMORE Colonnade, 9 feet wide by 9 feet high or smaller, furnished in Clear Yellow Pine. Price..... **\$26.30**

10-F-1294. KENMORE Colonnade, 9 feet wide by 9 feet high or smaller, furnished in Oak. Price..... **\$32.45**

For two sides of trim, one set of jambs 5 1/4 inches wide, baseboard and shoe to complete opening any size.

Clear Yellow Pine, add..... **\$ 5.75**
Clear Red Oak, add..... **11.50**

Shipping weight approximately 200 pounds.

Birch Colonnades made to order at advanced prices

Splendid Buffets Priced Very Low

THE ASTORIA BUFFET

Our Astoria is very attractive, Colonial design with plenty of drawer room and two neat cupboard spaces for china and glass-ware.

Specifications: Best quality clear kiln dried lumber carefully selected for beauty of grain and finish. The width, 6 feet and 7 feet, specified below, is the measurement overall, while the depth is 18 inches from front to the back. The height is 3 feet and 6 inches from floor to top of countershelf and the extreme height overall is 5 feet and 2 inches.

Size offered below is usually carried in stock; any special size made to order.

Best cabinet work, carefully joined, glued with waterproof glue. Carefully sanded and shipped in the white ready for the varnish.



THE ASTORIA BUFFET

Intermediate sizes take price of next larger size. These prices are for leaded crystal glass doors and plain plate mirrors. Bevel plate mirror, add \$4.50.

PRICES:

Catalog No.	Width	Height, Overall	Depth	Wood	Price
10-F-2120	6 ft.	5 ft. 2 ins.	18 ins.	Yellow Pine	\$88.50
10-F-2121	6 ft.	5 ft. 2 ins.	18 ins.	Oak or Birch	93.60
10-F-2122	7 ft.	5 ft. 2 ins.	18 ins.	Yellow Pine	90.20
10-F-2123	7 ft.	5 ft. 2 ins.	18 ins.	Oak or Birch	95.45



THE WALDEN BUFFET

Intermediate sizes take price of next larger size. These prices are for leaded crystal glass doors and bevel plate mirror.

THE WALDEN BUFFET

Our Walden is one of the most popular designs ever offered. Built along simple yet very attractive lines, particular attention being paid to proper and convenient arrangement of doors and drawers. These new Craftsman Buffets are made to set out of the wall, the ends being nicely finished and the back is closed. Like all our cabinet work, the material used in this buffet is carefully selected from thoroughly kiln dried clear lumber.

Specifications: The width, 6 feet and 7 feet, specified below, is the measurement overall, while the depth is 16 inches from front to the back. The height is 3 feet and 6 inches from floor to top of countershelf and the extreme height overall is 5 feet and 2 inches.

All buffets are shipped set up complete as shown, ready to set in place, no hardware or finishing included. Hardware can be selected from this catalog to match your other hardware.

PRICES:

Catalog No.	Width	Height, Overall	Depth	Wood	Price
10-F-1375	6 ft.	5 ft. 2 ins.	16 ins.	Yellow Pine	\$85.50
10-F-1376	6 ft.	5 ft. 2 ins.	16 ins.	Oak or Birch	93.00
10-F-1377	7 ft.	5 ft. 2 ins.	16 ins.	Yellow Pine	87.90
10-F-1378	7 ft.	5 ft. 2 ins.	16 ins.	Oak or Birch	95.40

Dining Room and Kitchen Cabinets



WHEATON

Dining Room Cabinet

Made to set in recess so the front comes even with the wall. Opening in wall, width 5 feet, height 7 feet, depth 14 inches. Doors are fitted and glazed leaded as shown. Bevel plate mirror 54 inches by 12 inches. Casing, head trim (A, B, C) and hardware not included. Trim should match trim in room where cabinet is installed. Hardware priced separate. Furnished in the white, without filler or varnish. Shipping weight about 250 pounds. Carefully crated.

- 10-F-805**—China Closet, Clear Yellow Pine.....\$77.00
10-F-806—China Closet, Clear Pl. Red Oak..... 87.50
10-F-807—Hardware, glass knobs—Lemon brass finish. 4.90

VILLA

Kitchen Cabinet

The kitchen china-closet shown is excellently built from the finest select lumber, which is dried. All stiles of doors are tongued and grooved for durability. Panels are three ply figured veneer. All doors and drawers are carefully fitted. Glass is clear and of double strength. Back is closed with beaded ceiling. Adjustable shelves in upper section and in lower cupboard. Made to set in recess opening in wall, 4 feet wide, 7 feet high and 14 inches deep. Made in two sections, upper and lower. Comes all complete in white, without filler or stain; ready for finisher. Available in yellow pine only. Hardware is priced separate. Trim (A, B, C) not included. Trim should match trim in room where cabinet is installed. Carefully crated. Shipping weight about 125 pounds.

- 10-F-809**—“Villa” Clear Yellow Pine.....\$39.00
 Lemon brass finish hardware 2.75



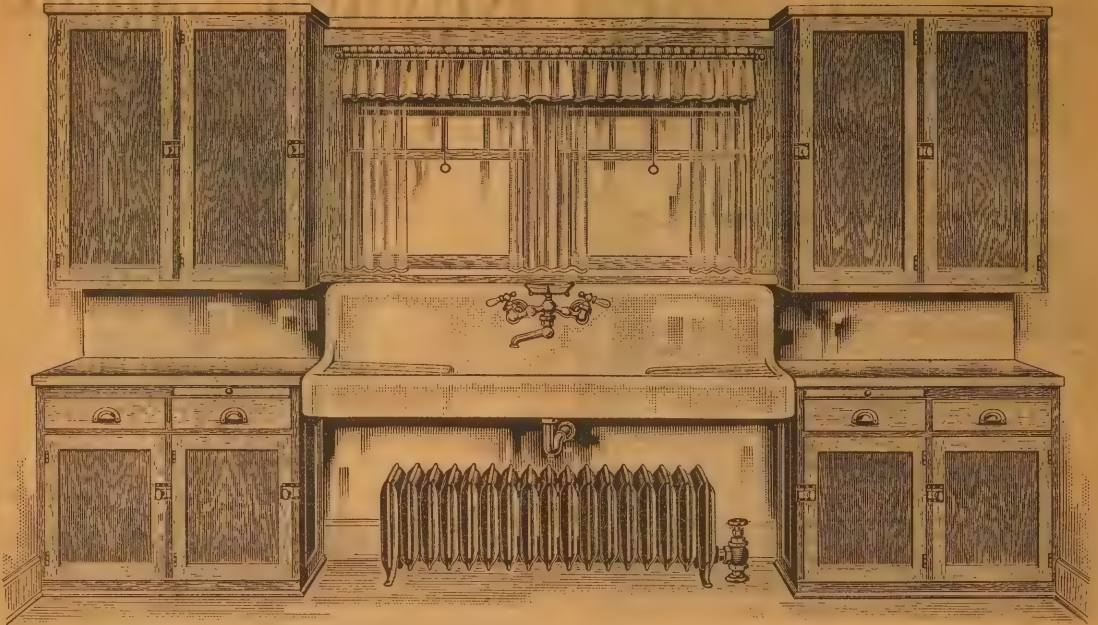
ELMHURST
Kitchen Cabinet

This is the same as our “Wheaton” in size and layout, except that the glass doors in the top are of plain glass instead of leaded, and the bottom doors are wood panel doors. First-class clear yellow pine lumber, best workmanship throughout. Mirror is bevel plate, 54”x12”. Casing head trim (A, B, C) and hardware not included. Trim should match trim in room where cabinet is installed.

- 10-F-808**—“Elmhurst” clear yellow pine, size 5 feet wide by 7 feet high. Depth 14 inches, to set in recess. Price.....\$67.50
 Hardware for same, lemon brass finish with glass knobs..... 4.90



Modern Built-In Conveniences



Ingenious Unit Cabinets Present Many Splendid Combinations!

Unlimited possibilities are provided with our improved sectional wall and table unit kitchen cabinets. The combination above is obtained by using two wall units and two table or base units. Made of carefully selected clear yellow pine. Furnished in the Natural wood (not finished). Hardware not included.

10-F-638. Wall Units—36 inches wide, 12 inches deep, 42 inches high with 3 shelves. Clear Yellow Pine. Each..... **\$13.50**

10-F-640. Table or Base Units—36 inches wide, 20 inches deep and 30 inches high with chopping board, 2 drawers and roomy pot cupboards with shelves. Clear Yellow Pine. Each..... **\$17.50**

Modern Kitchen Table



Usefulness and beauty are the requirements for Kitchen Furniture. This Kitchen Table is useful and will save the housewife many trips to the pantry. Is made to order in Yellow Pine or Oak, 4 ft. 6 in. wide, 2 ft. 10 in. high and 20 ins. deep. Four convenient drawers, roomy utensil cupboard, large capacity tilting flour bin and chopping board. No hardware or finishing included.

10-F-912. Yellow Pine. Price..... **\$26.75**

10-F-913. Oak or Birch. Price..... **29.75**

Shipping weight, 180 pounds.

Drawer Pantry Case



This Drawer Case can be used in pantries, closets, etc. It is made with three large drawers as shown, made of Clear, Yellow Pine and Oak, not painted or varnished, but smoothed, ready for any finish to match your woodwork. This case measures 3 feet wide, 2 feet 10 inches high and 1 foot 4 inches deep. The sides and back are not sealed.

10-F-908. Clear, Yellow Pine..... **\$ 8.75**

10-F-909. Clear, Red Oak..... **10.90**

Shipping weight, 90 pounds.

Beautiful "Concord" Breakfast Nook

Large Table and 2 Roomy Settees — Beautifully Designed, Carefully Constructed—Ready to Build-in and Finish to Suit your Own Taste.

This style of "built-in" breakfast nook is now all the vogue. Every home will find it a welcome addition to their other furnishings. It is so neat and handsome, takes up so little room and yet affords so much extra seating capacity, that no home is really complete without it. And then, you can finish it in accord with your own ideas, to harmonize with your other furnishings. Costs very little and comes to you complete, ready for setting up and finishing.

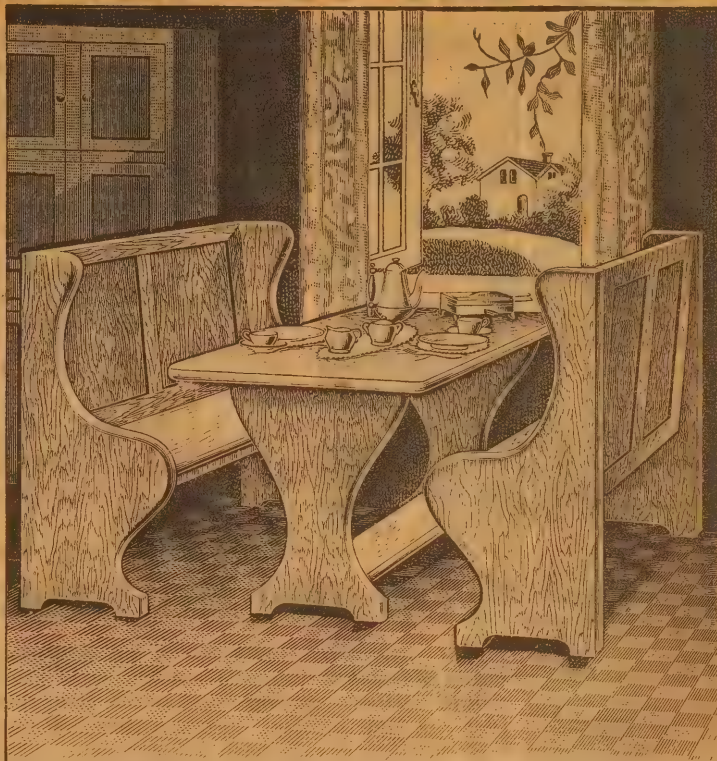
\$24⁸⁰

Complete

Wherever there is a little room, nook or alcove 5 ft. 6 in. by 4 ft. 6 in. or larger, the "Concord" will fit in with the utmost nicety. Made of the best grade Clear White Pine, with Birch panels in the settees. The stock is heavy and well seasoned and the construction is very substantial. Table top, seat and panel ends are 1 1/4 in. thick. All other parts 1/2 in. thick. Table is 4 ft. 6 in. long, 2 ft. 6 in. wide. Note the sturdy graceful construction and the wide foot-shelf underneath. The settees are 4 ft. 6 in. wide, 3 ft. 6 in. high, comfortable and roomy, and will accommodate 4 to 6 persons.

All parts are carefully sanded—ready for finishing—and so perfectly machined that anybody can put the nook together in a few minutes. Shipped in natural finish, K. D., and well crated, to reduce freight costs and avoid damage in delivery. Shipping weight, about 125 pounds.

No. 10-F-5656. "Concord" Breakfast Nook... \$24.80



Rare Values in "Built-in" Conveniences



Peak Head Medicine Case

Expertly made of selected clear stock, in natural unfinished color, carefully smoothed and sanded, ready for finishing or staining.

\$6⁴⁵

SPECIFICATIONS: Size of door 1 ft. 6 in. wide by 1 ft. 10 in. high. Depth of case in wall 4 1/2 in., opening in wall 1 ft. 8 in. wide by 2 ft. high. Size of mirror 14 in. by 18 in. Adjustable wooden shelves, furnished with casing, head trim, etc., as shown in illustration. No hardware included.

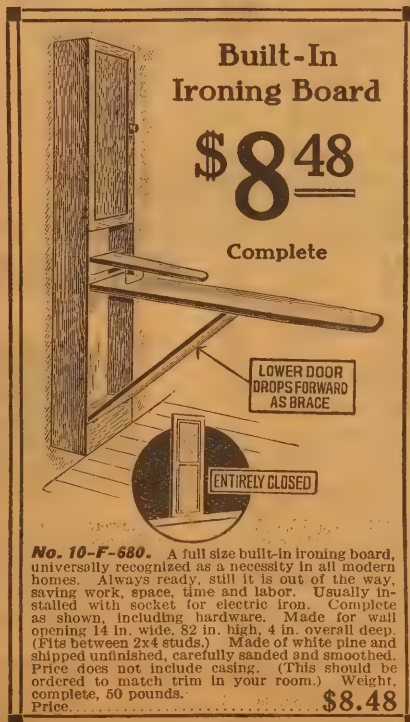
No. 10-F-851. Yellow Pine, Glazed with plain Plate Mirror. Price.....\$6.45

No. 10-F-852. Yellow Pine, Glazed with Bevel Plate Mirror. Price.....7.35

No. 10-F-853. Oak or Birch, Glazed with Plain Plate Mirror. Price.....7.40

No. 10-F-854. Oak or Birch, Glazed with Bevel Plate Mirror. Price.....8.30

Shipping weight, 60 pounds

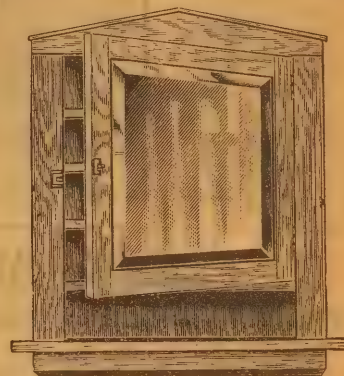


Built-In Ironing Board

\$8⁴⁸

Complete

No. 10-F-680. A full size built-in ironing board, universally recognized as a necessity in all modern homes. Always ready, still it is out of the way, saving work, space, time and labor. Usually installed with socket for electric iron. Complete as shown, including hardware. Made for wall opening 14 in. wide, 82 in. high, 4 in. overall deep. (Fits between 2x4 studs.) Made of white pine and shipped unfinished, carefully sanded and smoothed. Price does not include casing. (This should be ordered to match trim in your room.) Weight, complete, 50 pounds. **\$8.48**



Open Shelf Medicine Case

Carefully constructed of choice clear stock, smoothed and sanded, ready for finishing or staining.

\$6⁹⁵

SPECIFICATIONS: Size of door 1 ft. 6 in. wide by 1 ft. 10 in. high. Openings in wall, 1 ft. 8 in. wide by 2 ft. 6 in. high. Depth of case in wall, 4 1/2 in. Adjustable wooden shelves, furnished with casing, head trim, etc., as shown in illustration. No hardware or finishing included.

No. 10-F-889. Yellow Pine, Glazed with Plain Plate Mirror. Price.....\$6.95

No. 10-F-890. Yellow Pine, Glazed with Beveled Plate Mirror. Price.....7.85

No. 10-F-892. Oak or Birch, Glazed with Plain Plate Mirror. Price.....8.00

No. 10-F-893. Oak or Birch, Glazed with Bevel Plate Mirror. Price.....8.90

Shipping weight, 70 pounds.

A Page for the Handy Man



10-F-201

10-F-204

China Closets and Book Case Doors

In these four designs, we offer a choice from which anyone building a china closet can make a satisfactory selection. No. 10-F-201 is a glazed clear glass, and Nos. 10-F-204 and 10-F-202 are glazed with leaded Crystal Glass. No. 10-F-203 is exceptionally artistic and is a combination of a rich color in the design only, with a clear glass background. Just enough color to make it look pretty and desirable for either china closet or bookcase doors.

Our China Closet Doors are made 1 1/4-inch thick and furnished in either clear Pine or Red Oak.

Prices on China Closet Doors Clear Pine

SIZES	10-F-201	10-F-204	10-F-202	10-F-203
1-6x3-0	\$1.02	\$3.52	\$3.76	\$4.26
1-6x3-4	2.12	3.92	4.21	4.77
1-8x3-4	3.13	4.42	4.74	5.38
1-6x4-0	3.33	4.75	5.10	5.78
1-8x4-0	2.41	5.36	5.76	6.53

Shipping Weight 25 Pounds.
For Red Oak Wood add \$1.60 extra each Door.

Important: All Glass in the above doors set in with wood stops.



10-F-202

10-F-203

Top and Bottom Cupboard Doors

Our Cupboard Doors are of the neatest design and excellent workmanship. These doors are manufactured from the finest grade of seasoned lumber. With these doors it will be very easy to construct an excellent design of cabinet and the cost of the entire cabinet can thus be kept within a very low figure. The doors are made with Clear White Pine stiles and rails with Fir panels of beautiful grain. We carry these doors in stock, 3/4 in. thickness only. Special sizes and thickness to order.



10-F-223



10-F-223

Prices on Cupboard Doors 10-F-223

—SIZES—		3/4 In. Thick. Clear White Pine stiles and rails, Fir panels
Width Ft. in.	Height Ft.	
1-6x2-0		\$.96
1-6x2-6		1.22
1-6x3-0		1.31
1-6x4-0		1.65
1-8x2-6		1.28
1-8x4-0		1.77

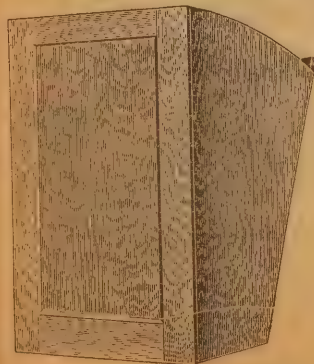
Shipping Weight 15 and 20 Pounds.

Make Your Own Cupboard

Items shown on this and other pages will enable the handy man to make his own cupboard at a big saving. Hardware and filling shown in hardware section of this book.

FLOUR BINS

Make Your Own Kitchen Cabinet



Just the thing to use for the construction of kitchen cabinet or pantry cupboard. It is a tiffing flour bin made of selected wood, clear yellow pine face.

When ordered "Knock Down" all material is shipped, smoothed and ready to put together, but is shipped to you knocked down.

The bin is so arranged that it can be fastened at the bottom with small loose bin butts, giving it an excellent tilt arrangement and yet making it possible to take it out of the cabinet for cleaning and airing.

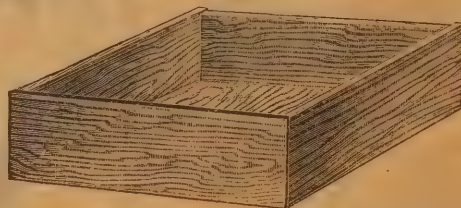
These bins are made 2 ft. 6 in. high, 1 ft. 6 in. wide, 9 in. at the bottom and 17 in. at the top.

10-F-882 Price in the Knock Down, clear Yellow Pine..\$4.80

10-F-883 Price Set Up, clear Yellow Pine.....\$5.60

Shipping Weight 38 Pounds.

SEPARATE DRAWERS



These drawers are made from seasoned, selected stock, with clear Yellow Pine lip face and soft wood body. They are well manufactured in every way. We furnish in the most desirable sizes, listed below, all drawers being made 18 inches deep.

SIZES		Height In.	Depth In.	10-F-879		10-F-880	
				Price, Each, K. D.		Price, Each, Set Up	
Width				Y. P.	Oak	Y. P.	Oak
1' 5"		4 3/4	18	\$1.05	\$1.35	\$1.40	\$1.70
3'		6 3/4	18	1.95	1.45	2.35	1.85

Shipping Weight 16 Pounds.

Newest Art Glass!

In selecting art glass be careful to choose a shape and design of the same proportion as the opening.

10-F-702. Double strength Florentine or Colonial white glass per square foot..... **25c**

Do not pick out a high narrow design for a wide opening or a wide design for a high narrow opening.

10-F-704. Double strength chipped design white glass per square foot..... **45c**

10-F-1548. Leaded clear sheet crystal glass per square foot..... **95c**

Three square feet is the minimum order that we can handle to advantage for you. For sizes under 3 square feet, a minimum of 3 square feet will be charged.

10-F-1550. Beautiful leaded crystal beveled plate glass per square foot..... **\$2.60**

10-F-1541. Leaded clear sheet crystal glass per square foot..... **95c**

SASH BARS Clear White Pine

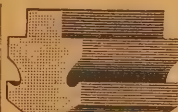


8436

END SASH BAR

10-F-8436

Used at end of Hotbed. Has but one square shoulder for sash to rest upon. Size $1\frac{1}{2} \times 2\frac{1}{2}$. Price 100 running feet..... **\$5.20**



8435

INSIDE SASH BAR

10-F-8435

Used between Glass. Size, $1\frac{1}{2} \times 2\frac{1}{2}$. Price per 100 running feet..... **\$5.20**



Half Size Hot Bed Sash

SIZE, 3 feet x 3 feet
1 1/2 inch thick

10-F-1754. Price, each..... **\$2.33**
10-F-1755. Dozen lots or more. Price, each..... **\$2.22**
10-F-1756. Lots of 25 or more. Price, each..... **\$2.11**

Shipping Weight, 32 Pounds

Open Hotbed Sash

10-F-1757. Price, each..... **\$1.48**
10-F-1758. Lots of 12 or more. Price, each..... **\$1.38**
10-F-1759. Lots of 25 or more. Price, each..... **\$1.28**

Shipping Weight, 10 Pounds

Hot Bed Sash

Clear White Pine

Improved 4 Row Type
Featuring:

Four rows of glass.
Extra strong bars.
All joints extra strong mortised and tenoned.
Standard size glass (costs less to replace).
Glass set by hand.
Best linseed oil putty.
Large triangular zinc glazing points.
Extra size tacks to hold glass in place.
Extra deep rabbet.

Wood—Clear, well seasoned, close-grain White Pine.

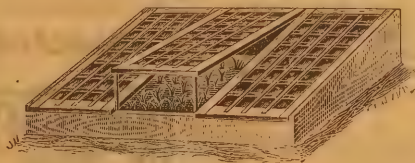
Strengthened by heavy brads.

Largest number of strength-giving qualities.

Smallest number of shadow-casting bracing devices.

Quick shipment from Chicago.

Strength Guaranteed



Hot Bed Glass!

Special Brands of Greenhouse and Hotbed Glass packed expressly for our trade. The sizes listed below represent only a few of the best sellers. We carry a large stock of glass for prompt shipment. Get our prices before you buy.

Standard quality. Large stock on hand. Packed strong. Safe delivery guaranteed.

Lot Number	Size Inches	Price Per Box	No. Lights in Box
10-F-1707.	7x9	\$3.85	114
10-F-1708.	8x10	3.89	90
10-F-1709.	9x12	3.93	67
10-F-1710.	10x14	3.98	51
10-F-1711.	16x18	4.53	25



Full Size Hot Bed Sash

SIZE, 3 feet x 6 feet
1 1/2 inch thick

10-F-1701. Price, each..... **\$3.66**
10-F-1702. 12 or more, each..... **3.55**
10-F-1703. 25 or more, each..... **3.44**

Shipping Weight, 60 Pounds

Open Hotbed Sash

10-F-1704. Price, each..... **\$1.96**
10-F-1705. 12 or more, each..... **1.86**
10-F-1706. 25 or more, each..... **1.76**

Shipping Weight, 18 Pounds

LUMBER! *All Guaranteed Grades*

The lumber we handle here at our main plant and factory here at Chicago is all guaranteed up-to-grade lumber that has been manufactured and graded in accordance with the American standards adopted by the United States Department of Agriculture. We do not price common dimension lumber, boards, sheathing, timber, etc., as prices on these items are continually changing and due to the small margin of profit we take, it is impossible for us to publish a price list that we can guarantee for any extent of time.

We, however, will be glad to figure with you on all of your requirements and only ask that you send us a definite list of the material you need, showing just what you want. When sending us your list be sure to specify the quantity, size, length, grade, manufacture and kind of wood you will require. In this connection, it might be well for you to specify what you are going to use each item for, as we often have specials that are especially adapted for certain purposes.

If you are contemplating erecting a home you cannot do better than to give consideration to our guaranteed permanent Harris Homes Beautiful, or to our Harris "Cellu-Seal" Permanent Garages and Cottages, which you will find fully described in another section of this book.

Prices quoted on these pages are good only at the time of publication of the catalog and are shown so that you can make comparisons of values and grades of material offered. They are subject to change without notice. Do not hesitate to send us your order at these prices as we will notify you of any change after entering the order. If prices have been reduced since publication of catalog, your order will be shipped and the balance refunded. If prices have advanced, you will be advised before your order is shipped so that you can send the additional amount. In the event of cancellation, the amount you remitted will be refunded, provided you do not care to apply it on a new order for other material.

On this you can depend; material we furnish will be quality material, correct as to grade and count, carefully shipped; we guarantee safe delivery.

Siding, Flooring, Ceiling, Byrkits Patent Lath, Stucco Lath, Drop Siding, Colonial Siding

Bevel Siding

Also known as "Weather-Boarding Split Siding," "Clap Boards or Lap Siding." Red Wood and Spruce. Machined to standard width and thickness. Standard bundling, consists of regular lengths 4 to 16 ft. All prices per 100 feet, Board Measure. Weight, 80 lbs. per 100 feet.

Note: Order by number. State size, grade and kind of wood wanted. Also for your protection, please state size of space you intend covering.

Number	Size	Grade	Wood	Price
22-E-711	1½ x 4	Clear	Spruce	\$5.00
22-E-712	1½ x 6	Clear	Spruce	5.25
22-E-713	1½ x 4	Clear	Red Wood	5.00
22-E-714	1½ x 6	Clear	Red Wood	5.25
22-E-715	1½ x 8	Clear	Red Wood	6.50

Colonial Siding

This popular wide siding, also known as Channel-Rustic siding, is the kind you see used so much on high class Colonial and Dutch Colonial Houses. Numerous modern California Bungalows in the best residential districts are being built with this material specified. When painted white, it makes a most striking appearance. Best grade kiln dried lumber only.

No. 22-E-7201. 1x10 inch clear Fir Colonial siding. Weight, 210 lbs. Price per 100 feet, B.M. \$7.70

Drop Siding

Also known as "Novelty Siding," "Rustic Siding," "German or Dutch Siding" "Patent Siding."

This kind of siding is used where sheathing boards are not used.

Machined to standard widths and thickness. Prices are for assorted lengths 6 to 16 feet and longer. Very small amount of 6 and 8 ft. Pattern No. 106 always in stock.

Number	Size	Grade	Wood	Price	Weight
22-E-7149	1x6	Clear	Oregon Fir	\$6.50	190 lbs.
22-E-7148	1x6	Clear	Oregon Fir	6.75	190 lbs.

Byrkits Patent Sheathing Lath or Stucco Lath

Used in place of sheathing boards when wall is to be covered with stucco.

Furnished in random lengths. Tongued and grooved or square edged subject to stock on hand. This material is usually offered in No. 3 grade. We have not found this grade satisfactory therefore we are offering No. 2 and better grade which means Nos. 1 and 2 mixed. Weight, 165 lbs. per 100 ft.

22-E-7139. 1x6 inch. Lengths, 4 to 16 feet. Per 100 feet, B. M. \$4.25



Plastering Lath

Always in stock. Full thickness and width. Mixed Northern pines, No. 1 grade.

Low Prices per 1,000 Pieces.

22-E-7165. 32-inch Lath, Northern Pine Wt., 325 lbs. per 1000 \$ 6.00
22-E-7166. 48-inch Lath, Northern Pine Wt., 500 lbs. per 1000 12.00

Creosoted Red Cedar Shingles



"HARRIS BEST"

25 to 40-year Roof

This is, in our opinion, the best roof shingle made. Clear lumber—all heart wood—no-sap and ¼ sawed, creosoted with best quality creosote and stained. Shingles used are best 5X8.C. clears, 5/2 thickness, 16" long. When applied with galvanized nails, will last 25 years; zinc coated nails, 40 years. Weight, 144 lbs. per square.

22-E-5420. Color, rich brown. Price per square. \$10.40
22-E-5421. Color, moss green. Price per square. 10.70
 Sold only by the square, 4 bunches to the square, to be laid 5 inches to the weather.

Washington Red Cedar Shingles

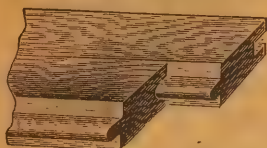
Not Creosoted or Stained

22-E-7140. Extra Star A Star 16-inch, 6 to 2 butts. Weight, 160 lbs. Price, per M. \$5.50
22-E-5415. Extra Clear, 16-inch, 5 to 2 butts. Highest grade made. Weight, 180 lbs. Price, per M. 6.25
 4 Bunches to the M.

Continuation of Prices on LUMBER!

Flooring—Ceiling—Stucco Lath—Hardwood Flooring

Yellow Pine and Fir



House Flooring

Best quality. Correctly manufactured and thoroughly kiln dried.

Price per 100 ft. B. M.
Weight 200 lbs. per 100 ft.
Assorted lengths 8 to 20 ft.

Number	Finished Size	Grade	Wood	Price
22-E-7120	3/4x3 1/4	Clear	Flat Sawed Fir	\$6.50
22-E-7122	3/4x3 1/4	Clear	Flat Sawed Y. Pine	7.70

Above are the highest grades made. Shipped carefully bundled. Y. P. means Yellow Pine, or Southern Hard Pine.

Fir Porch Flooring

We recommend Fir especially for the purpose of porch floors. It wears better because it is not as soft as Soft Pine and some other woods now being endorsed for Porch floors. This close knit fibrous Fir of the Western Slope, in our opinion, has all other woods backed off the boards for porch floors. Can be furnished in specified lengths, that is, your choice of 6, 7, 8 or 9 ft. lengths.

Price per 100 feet B. M. Weight 200 lbs. per 100 ft.

Number	Size	Grade and Kind	Lengths	Price
22-E-7137	3/4x3 1/4	Clear Flat Grain Fir	6 to 9 ft.	\$6.00
22-E-7138	3/4x3 1/4	Clear Edge Grain Fir	6 to 9 ft.	7.50

Ceiling—Wainscot and Partition



For porches, under eaves, wainscot, ceiling, etc. All tongued, grooved and beaded, smoothly machined. Kiln dried, suitable for natural finish. Assorted lengths, 6 ft. to 16 ft.

Number	Finished Size	Grade	Wood	Price 100 ft. B. M.	Wgt. per 100 ft.
22-E-7151	5/8x3 1/4	Clear	Oregon Fir	\$5.25	140
22-E-7153	3/4x5 1/4	Clear	Oregon Fir	6.75	200
22-E-7154	3/4x5 1/4	No. 1C	Yellow Pine	6.20	200

Oak and Maple



Hardwood Flooring

Perfectly Manufactured, Guaranteed Grades

Kiln Dried, End Matched, Tongued and Grooved

Nature has particularly favored these splendid and most substantial of all American hardwoods. Their very names stand for durability.

There is a hardwood flooring grade for every flooring purpose—from public building to private home and from castle to cottage.

A well informed landlord knows that hardwood flooring commands a higher rental, and at the same time attracts a better class of tenants. The real estate dealer who builds to sell, knows that they are his "one best bet."

The most convincing endorsement as to the superior merits of hardwood flooring is found in its steadily increasing use for every type of building both private and public.

NOTE—Order by number. State size, grade and kind of wood wanted. Also for your protection, please state size of space you intend covering.

Price per 100 feet Board Measure. Standard lengths.

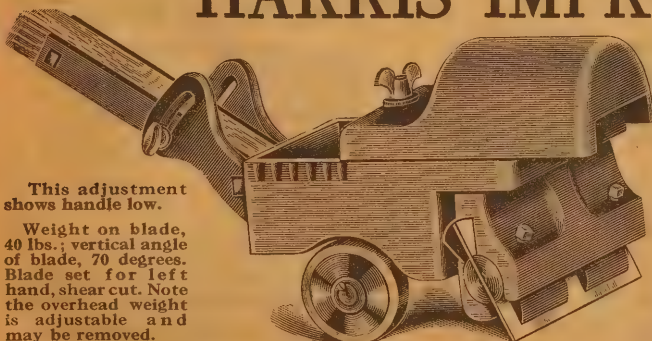
Number	Finished Size	Grade	Wood	Price	Weight
22-E-5311	3/8x2	Select	Maple	\$ 6.50	100 lbs. per 100 ft.
22-E-5314	3/8x2	Clear	Maple	8.85	
22-E-5316	3/8x2	Select	Oak	7.50	
22-E-5320	3/8x2	Clear	Oak	8.85	
22-E-7155	13/16x2 1/4	Clear	Maple	12.50	200 lbs. per 100 ft.
22-E-7156	13/16x2 1/4	Select	Maple	11.50	
22-E-7157	13/16x2 1/4	Clear	Red Oak	12.50	
22-E-7158	13/16x2 1/4	Select	Red Oak	11.50	
22-E-7159	13/16x2 1/4	"C" & Btr.	Red Oak	8.50	

HARRIS IMPROVED PATENTED "ADJUSTABLE"

Ball Bearing Floor Scraper

OUR SPECIAL OFFER:

A \$40.00 Scraper with 3 Blades - - - - - **\$27⁵⁰**



This adjustment shows handle low.

Weight on blade, 40 lbs.; vertical angle of blade, 70 degrees. Blade set for left hand, shear cut. Note the overhead weight is adjustable and may be removed.

Our object in making this special offer is to introduce the floor scraper which, in our opinion, is by far the best scraper on the market today. Here is your chance to buy and own a regular \$40.00 floor scraper and save more than its cost to you. A fortunate buying arrangement enables us to give you the benefit of this saving.

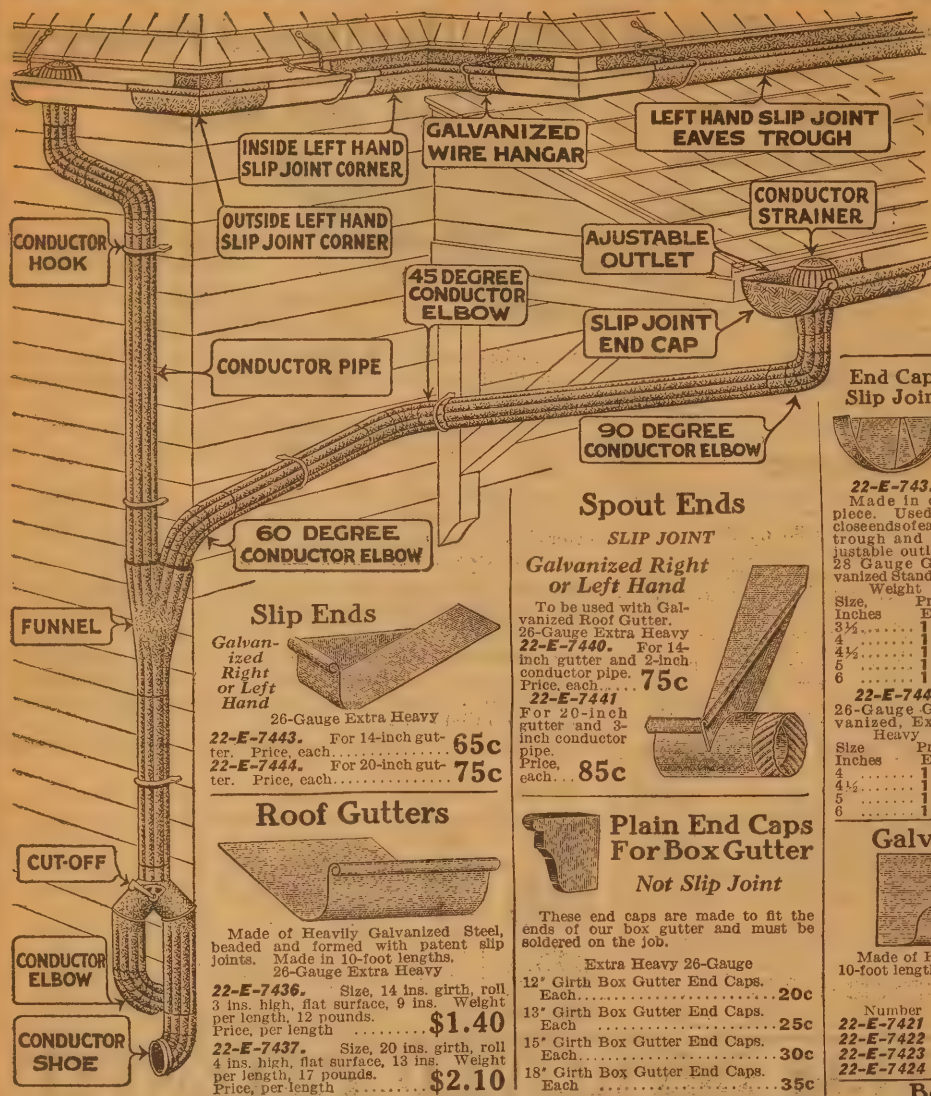
This machine can be used by anyone for any kind of practical floor scraping. Easily adjusted to suit the convenience of the operator. Blade adjustable to any vertical or lateral angle to the floor. Overhead weight adjusted to give 30 to 40 pounds pressure directly on blade. Scrapes up into the corners.

This is the eighth year that this scraper has been on the market. Each succeeding year the demand has grown until today it is without doubt, the best and lowest priced machine offered. It is guaranteed to do the work. First class material and workmanship throughout. Any parts broken due to defective workmanship or material will be replaced free within one year provided the defective part is returned to our plant at Chicago. The exchange will be made at our expense.

Simply push and pull the machine forward and backward in an easy natural way. Ball bearing rubber tired wheels make the work easy. Weight can be removed for finishing work. Under a uniform pressure, a true and even surface is assured. Weight of machine, 125 pounds. Three blades, 8 inches wide, made of Disston Saw Steel. Burnisher and wrench included. Extra Blades, each 90c

22-E-1620. Harris Improved Patented Adjustable Floor Scraper, complete, F. O. B. Chicago. Each **\$27.50**

Galvanized Eaves Trough



Adjustable Outlet
Consists of about 8 inches of trough, with drop outlet soldered on bottom to connect to the conductor pipe.



Size Inches	For Conductor Pipe Size	22-E-745 28gauge	22-E-748 26gauge
3 1/2	2"	28c	
4	2"	30c	39c
4 1/2	3"	34c	40c
5	3"	35c	42c
6	4"	41c	51c

End Cap Slip Joint



Galvanized Corner Mitre



22-E-743. Made in one piece. Used to close ends of eaves trough and adjustable outlets. 28 Gauge Galvanized Standard Weight

Size, Inches	Price, Each
3 1/2	10c
4	12c
4 1/2	13c
5	14c
6	15c

22-E-744. 26-Gauge Galvanized Extra Heavy

Size, Inches	Price, Each
4 1/2	13c
5	14c
5 1/2	15c
6	16c

These corners are made with both inside and outside bead. Be sure to order according to number.

22-E-747. Outside corner, right hand.

22-E-748. Outside corner, left hand.

22-E-749. Inside corner, right hand.

22-E-7410. Inside corner, left hand.

Size, inches 3 1/2 4 4 1/2 5 6

Price, each 25c 27c 35c 40c 45c

22-E-7411. Outside corner, right hand.

22-E-7412. Outside corner, left hand.

22-E-7413. Inside corner, right hand.

22-E-7414. Inside corner, left hand.

Size, inches 4 4 1/2 5 6

Price, each 38c 40c 45c 52c

Spout Ends

SLIP JOINT

Galvanized Right or Left Hand

To be used with Galvanized Roof Gutter.

22-E-7440. For 14-inch gutter and 2-inch conductor pipe.

Price, each 75c

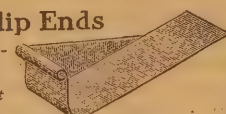
22-E-7441. For 20-inch gutter and 3-inch conductor pipe.

Price, each 85c



Slip Ends

Galvanized Right or Left Hand



26-Gauge Extra Heavy

22-E-7443. For 14-inch gutter.

Price, each 65c

22-E-7444. For 20-inch gutter.

Price, each 75c

Roof Gutters



Made of Heavily Galvanized Steel, beaded and formed with patent slip joints. Made in 10-foot lengths. 26-Gauge Extra Heavy

22-E-7436. Size, 14 ins. girth, roll 3 ins. high, flat surface, 9 ins. Weight per length, 12 pounds.

Price, per length \$1.40

22-E-7437. Size, 20 ins. girth, roll 4 ins. high, flat surface, 13 ins. Weight per length, 17 pounds.

Price, per length \$2.10



Plain End Caps For Box Gutter

Not Slip Joint

These end caps are made to fit the ends of our box gutter and must be soldered on the job.

Extra Heavy 26-Gauge

12" Girth Box Gutter End Caps.

Each 20c

13" Girth Box Gutter End Caps.

Each 25c

15" Girth Box Gutter End Caps.

Each 30c

18" Girth Box Gutter End Caps.

Each 35c

Galvanized Box Gutters



Made of Heavily Galvanized Steel and furnished in 10-foot lengths, both ends open.

LAP JOINT

26-Gauge Extra Heavy

Number 12' 4' 3 1/2' 4' 1' 10' Lengths

22-E-7421. 12' 4' 3 1/2' 4' 1' 10' Lengths

22-E-7422. 13' 5' 4' 1' 10' Lengths

22-E-7423. 15' 5' 4' 1' 10' Lengths

22-E-7424. 18' 6' 6' 1' 10' Lengths

Price, per 10' length \$1.20 1.40 1.60 2.00

Box Gutter Mitres



LAP JOINT

26-Gauge Extra Heavy

22-E-7429. 12 in. Girth. Price, each \$.60

22-E-7430. 13 in. Girth. Price, each .75

22-E-7431. 15 in. Girth. Price, each .90

22-E-7432. 18 in. Girth. Price, each 1.05

Price, each 1.05

Outlets for Box Gutter

Made of a piece of box gutter about 12' long with a tube about 4' long soldered to it to represent the same kind of an outlet as shown for eave trough—without slip joints.

Extra Heavy 26-Gauge

12" Girth for 2" Conductor Pipe. Each \$.75

13" Girth for 3" Conductor Pipe. Each .90

15" Girth for 3" Conductor Pipe. Each .95

18" Girth for 4" Conductor Pipe. Each 1.05

18" Girth for 5" Conductor Pipe. Each 1.10

Tin Shingles



PAINTED

Made of roofing tin. Used for making tight joints around chimneys and roof hip finish.

22-E-7527. Tin Shingles.

Size, 2 1/2 x 7 inches. Weight, per 100 pieces, 5 1/4 lbs.

Each \$0.02

Price, per 100 1.75

22-E-7525. Tin Shingles.

Size, 5 x 7 inches. Weight, per 100 pieces, 11 1/4 lbs.

Each \$0.03

Price, per 100 2.30

22-E-7526. Flashings. Size, 7 x 10 inches. Weight, per 100 pieces, 20 lbs.

Each \$0.05

Price, per 100 4.55

Ridge Roll—Plain Apron



10 Foot Lengths.

28-Gauge Standard Weight

A neat water-proof cap for the ridge of roofs. It is made in 10-foot lengths and can be used on shingles or any other kind of roofing. We do not furnish cut lengths.

Size Width Per

Number of Roll of Girth 10 ft.

inches Apron inches length

22-E-7522. 1 1/2 2 8 53c

22-E-7523. 2 2 10 62c

26-Gauge Extra Heavy

22-E-7524. 1 1/2 2 8 69c

22-E-7525. 2 2 10 78c

GALVANIZED FLASHING SHINGLES

22-E-7528. Size, 5 x 7 inches; weight, per 100, 20 lbs. Each 4c

22-E-7529. Size, 7 x 10 inches; weight, per 100, 30 lbs. Each 7c

Valley Tin



Made of high grade tin plate in a continuous length, locked and soldered.

PAINTED

22-E-7445. Width, 14 inches, weight, per roll, 30 lbs.

Price, per foot \$0.10

Price, 50 ft. roll 4.55

22-E-7446. Width, 20 inches, weight, per roll, 48 lbs.

Price, per foot \$0.13

Price, 50 ft. roll 5.95

GALVANIZED

22-E-7447. Width, 14 inches, weight, per roll, 40 lbs.

Price, per foot \$0.12

Price, 50 ft. roll 5.25

22-E-7448. Width, 20 inches, weight, per roll, 60 lbs. Price, per foot \$0.16

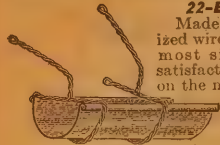
Price, 50 ft. roll 7.50

CONDUCTOR PIPE AND TRIMMINGS

Galvanized Wire Hangers

22-E-7415

Made of galvanized wire, and is the most simple and satisfactory hanger on the market.



Size, inches...	3 1/2	4	4 1/2	5	6
Price, Doz...	34c	35c	38c	40c	42c

Conductor Hooks



22-E-759. Galvanized Conductor Hooks for Corrugated Conductor.

Size, Inches	Price, per doz. for wood	Price, per doz. for brick
2	\$0.42	\$0.48
3	.52	.60
4	.74	.89
5	1.05	1.30
6	1.26	1.58

Conductor Elbows

Galvanized Corrugated



45 Degree 60 Degree 90 Degree

22-E-753
28-Gauge

Size, Inches	Price, Each
2	18c
3	21c
4	35c
5	70c
6	88c

22-E-754
26-Gauge

Size, Inches	Price, Each
2	\$0.28
3	.34
4	.55
5	1.00
6	1.35

"Harris" Single Barrel Ventilating Galvanized Smoke-Stacks



These are made of extra heavy 26-gauge galvanized steel, to fit over an ordinary 6" stove pipe.

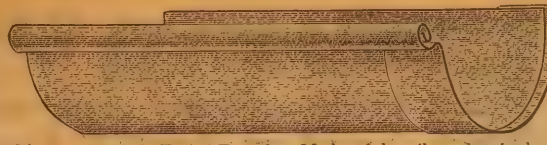
The stack is 6 1/2" in diameter which will leave a space of 1/4" all around the stove pipe for cold air ventilation. This cold air is taken right out of the room and not from the outside of the building.

There is a cone shaped flange fitting on the outside to prevent water leaking through from rain or melting snow and underneath this flange are air holes for ventilating purposes. It is 36 inches in height over all.

Price, each. \$4.25

Galvanized Eaves Trough

Improved Slip Joint

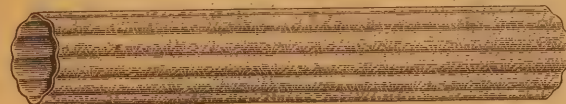


Most convenient Eaves Trough. Made of heavily galvanized steel sheets. Each length has an improved slip joint at one end, so that the lengths can quickly and easily be put together without soldering. Water-tight joints.

When ordering be sure and state whether right or left hand trough is wanted. Right hand trough discharges water at the right hand end of the trough; left hand trough discharges the water at the left hand end. In 10-foot lengths. We do not supply cut lengths.

Size, Inches	No. 22-E-741 28-Gauge Standard		No. 22-E-742 26-Gauge Extra Heavy	
	Weight	10-Foot Length	Weight	10-Foot Length
3 1/2	4 lbs.	47c	6 lbs.	59c
4	5 lbs.	52c	6 1/2 lbs.	64c
4 1/2	5 1/2 lbs.	57c	7 1/2 lbs.	70c
5	6 lbs.	62c	9 lbs.	81c
6	7 lbs.	76c		

Galvanized Conductor Pipes



This Conductor Pipe is made of strictly first quality heavily galvanized sheets. Nothing better, stronger or more durable in this gauge of pipe can be had. It is made in 10-foot lengths without cross seams. Will not burst when full of ice. We furnish it in full 10-foot lengths only.

Size, Inches	No. 22-E-751 28-Gauge Standard		No. 22-E-752 26-Gauge Extra Heavy	
	Weight	10-Foot Length	Weight	10-Foot Length
2	5 lbs.	\$0.55	6 lbs.	\$0.71
3	6 lbs.	.64	7 1/2 lbs.	.75
4			10 lbs.	1.04
5			12 1/2 lbs.	1.27
6			14 lbs.	1.50

Size of Conductor to Use with Eaves Trough

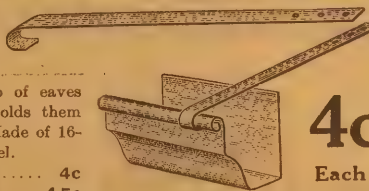
For Eaves Trough...	3 1/2"	4"	4 1/2"	5"	6"
Use Conductor Pipe.	2"	2"	3"	3"	4"

Box Gutter Strap Hanger

22-E-7416. Most convenient time-saving hangers for box or roof gutters.

Makes a simple job of eaves trough hanging. Holds them solid and secure. Made of 16-gauge galvanized steel.

Price, each..... 4c
Price per doz..... 45c



4c
Each

Metal Hip Shingles



These shingles are much more ornamental than the wood hip caps and are easily laid. Size of shingles, 4x9 inches.

22-E-7531

Painted tin hip shingles. Size, 4 inch by 9 inch.

Price, each \$0.03 1/2
Price per 100 3.00

22-E-7532

Galvanized hipshingles. Size, 4 inch by 9 inch.

Price, each..... \$0.04 1/2
Price, per 100..... 4.00

Conductor Strainer

22-E-7514. Galvanized Wire Conductor Strainers. To be placed in the outlet of eaves trough preventing leaves, etc., from stopping up the conductor.

Size, Inches	Price, Each
2	11c
3	14c
4	22c
5	34c
6	44c



Strap Hangers for Eaves Trough

22-E-9348

Quickly attached. Makes gutter hanging an easy job. Made of heavily galvanized strap iron.



Size, inches...	4	4 1/2	5	6
Per Dozen....	80c	85c	90c	95c

Conductor Fasteners

Suitable for wood or brick buildings. Made of heavily galvanized wire. Keeps the pipe from coming in contact with the building, making it possible to paint behind the conductor pipe, preventing the moisture from rotting the siding and corroding the pipe.



22-E-758

Size of Conductor Pipe, In.	2	3	4	5	6
Gauge of wire....	15	15	11	10	9
Price, per doz....	45c	55c	65c	75c	85c

Conductor Shoes

(Galvanized Corrugated)

Made of galvanized steel.

28-Gauge Standard

22-E-756

Size, Inches	Price, Each
2	\$0.23
3	.28
4	.42
5	.86
6	1.05

26-GAUGE EXTRA HEAVY

22-E-757

Size, Inches	Price, Each
2	\$0.36
3	.44
4	.70
5	1.40
6	1.65

Conductor Funnel

22-E-7512. Used for running two conductors into one outlet. Size given is size of lower spout.

28-Gauge

Size, In.	Price, Each	Size, In.	Price, Each
2	\$0.52	5	\$0.90
3	.62	6	1.05
4	.70		

26-Gauge

Size, In.	Price, Each	Size, In.	Price, Each
2	\$0.70	5	\$1.20
3	.80	6	1.45
4	.95		



Rain Water Cut-Off

For Corrugated Conductor Pipe

28-Gauge Galvanized Standard Gauge.

22-E-7510

Size, Inch	Price, Each
2	\$0.63
3	.70
4	.90
5	1.60
6	2.10

22-E-7511
26-Gauge Galvanized Extra Heavy.

Size, In.

Size, In.	Price, Ea.
2	\$0.90
3	1.00
4	1.40
5	2.30
6	3.00



Block Finials

Galvanized

22-E-7530

Used in connection with ridge roll, 1 1/2 and 2 inch ridge roll.

Price, each..... 50c



"Smoothwall" Plaster Board

Nationally Advertised. Makes a Stronger, Better Wall or Ceiling. Fire Resisting—Bears Underwriters' Approval. $\frac{3}{8}$ Inches Thick. You Can Apply it Yourself.



This is the famous Plasterboard that you see advertised nationally in the leading periodicals under the manufacturers' copyrighted name—the best plasterboard manufactured—offered to you under our own name of "Smoothwall" at a big saving in price. Outselling all competitive boards at least two to one and is now used on all classes of buildings. Comes in strong, rigid

sheets 48 inches wide and 6 to 10 feet long, to fit every wall and ceiling.

"Smoothwall" plasterboard will not burn or support combustion. Made of pure gypsum, the material that from time immemorial has been used for solid, smooth-surfaced, permanent walls and ceilings. Approved by the Underwriters' Laboratories, Inc., as an effective barrier against fire.

Cooler in Summer—Warmer in Winter

Cross cut showing strength of "Smoothwall"

Walls and ceilings covered with "Smoothwall" are not affected by atmospheric changes or climatic conditions. They will not warp or buck. Gypsum in itself is one of the best insulators known—a property that is still further increased in "Smoothwall" plasterboard by the heavy outer layers of specially prepared paper. The cold air is kept out in winter

and the hot air in summer. "Smoothwall" sheets are extremely rigid, solid and strong, and will last as long as the building stands. Yet they are light enough to be easily handled and erected. They will not harbor vermin or dust because of their rock-like nature, tight joints and smooth surface—clean and sanitary.

You Can Do the Job Yourself

Anyone who can nail a common board in place can apply "Smoothwall" plasterboard. No waiting for the building to dry out. Cuts readily with a saw, or may be scored with a knife and snapped off—in the same way as a glazier cuts glass. The reinforced nailing edge—a patented square folded edge—insures durability and uniform tight-fitting joints. You nail it in place with 3-penny common nails—about $\frac{1}{8}$ pound to the average piece.

Wherever a strong, economical wall or ceiling is required, "Smoothwall" is the answer. Whether you want it for your new home, or to convert extra space into useful rooms, or to line your garage, hen-house or boiler room, you can find nothing more satisfactory than "Smoothwall" plasterboard. It is adaptable to any kind of decoration—wallpaper, paint, calumne, enamel, lining cloth or paper—either with or without panels. When properly decorated, joints are completely concealed.

Prices of "Smoothwall" Plasterboard
Order by No. 22-E-718

Size In. Ft.	Price per Sheet
48 x 6.....	\$1.08
48 x 7.....	1.26
48 x 8.....	1.44
48 x 9.....	1.62
48 x 10.....	1.80

Joint Filler Included Free of Charge
with All Orders

Grade "B" Economy Plasterboard

When handling "Smoothwall" plasterboard, sheets are occasionally slightly damaged or discolored. These sheets we offer you at a big reduction under the name of "Economy" plasterboard. They are entirely suitable for all ordinary work, as the defects are usually of a minor character, and practically all disappear when the sheets are decorated. We recommend "Economy" plasterboard very highly, in view of the considerable saving in price.

Prices of "Economy" Plasterboard
Order by No. 22-E-818

Size In. Ft.	Price per Sheet
48 x 6.....	90c
48 x 7.....	\$1.05
48 x 8.....	1.20
48 x 9.....	1.35
48 x 10.....	1.50

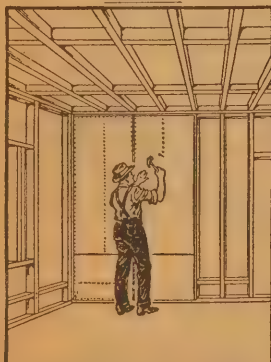
Joint Filler Included Free of Charge with All Orders

COUNTRY BUYERS, PLEASE NOTE! On local freight shipments, add 10% to the above prices on all orders over \$15.00 to cover cost of crating. On orders under \$15.00, add \$1.50 for crating. If you can use 12,000 square feet or more, we will ship direct from the factory and save you all crating

expenses as well as give you the benefit of carload freight rates. Specify the largest quantity you can buy of each size and we will quote you our low carload freight-prepaid prices. We can ship up to 22,000 square feet on the minimum carload rate.



Note how easy it is to handle "Smoothwall"



Can you nail down a board?
That's all the skill you need



With an ordinary putty knife and the filler we supply FREE, joints and cracks are perfectly concealed



Splendidly adaptable to any kind of decoration

Joint Filler Included Free of Charge on All Orders

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Gold Medal Wall Board

A Real Wall Board—the
one you've waited for!

GOLD MEDAL WALLBOARD

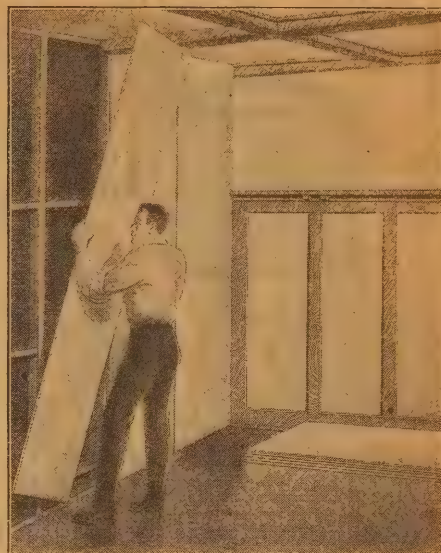
Is the Nearest Approach to Wallboard Perfection

A Perfected Pure Fibre-Board

Makes a beautiful cream wall.
Material colored in making. Re-
quires no decoration whatever.

No dirt—No waste—No delay.
You yourself can easily put it
on and do a perfect fast job.

Rosin Sized—Vermin Proof—Will Take Paint—Calci-
mine—Stain—Grain—Varnish—Can Be Papered Over



A clean, neat and satisfactory wall or ceiling material—can be cut with a knife or saw without injury to either. Panels are nearly one-quarter of an inch thick—thoroughly dried and seasoned—can be nailed directly to rafters or studs 16 or 24 inches apart—makes a beautiful, permanent, sanitary and economical wall or ceiling. Will stand shocks, jars and vibrations that will bring down plaster—is a non-conductor—keeps out the cold and holds the heat inside in winter. Also cooler in summer.

You can make new rooms, partition, line or ceil while you are living in your house for there is no dampness as in lath and plaster work. Panels can be handled by ONE person. No crack filling necessary—cover the seams with wood panel strips or gummed wallboard tape and your job is clean and complete.

We Guarantee

safe delivery in convenient packages wrapped in Quality
Craft paper. Can be strapped on the running board of a car.



PRICES!

13-E-9306 Gold Medal Wallboard.

Size	Price
Ins. Ft.	Per Sheet
48 x 6.....	\$0.84
48 x 7.....	.98
48 x 8.....	1.12
48 x 9.....	1.26
48 x 10.....	1.40
48 x 12.....	1.68

13-E-9307 Gummed Wallboard Tape—
1½" wide in 100 ft. rolls.
Price per Roll.....15c

13-E-8281 Clear fir or pine panel strips,
1⅜" thick. Price per Foot.....1½c

13-E-9308 Flat Head three penny nails
for wallboard—1 pound to a square.
Price per Pound.....7c

Reliable Auto Accessories

Radiators for Ford Cars



Brass
Core

\$13.00

Latest pattern honeycomb radiator for Ford cars—same design as built by the Ford Motor Co. Large water capacity and cooling surface guaranteed to keep your engine cool under most severe conditions. The core is flexible, allowing for expansion in case of freezing—water thawing gradually, which prevents bursting. All parts of core which come in contact with water are made of brass; radiator casing made of heavy wrought steel, finished in black Japan. Securely packed in wood box; weight 40 lbs.

4-E-1507. Radiator for Ford cars built from 1909 to 1916. Each..... **\$13.00**

4-E-1508. Radiator for Ford cars 1917 and 1918 Models. Each..... **\$13.00**

Harris Spark Plugs

Junior
40c

Giant
75c

Stop
Spark Plug
Troubles



After careful investigation and test of the most trying and severe kind, we discovered the perfect spark plug. The specially selected, carefully blended clay used in the porcelain cores offer greatest possible resistance to heat, vibration and oil. They cannot chip or crack. Will not leak or short circuit. Quickly and easily cleaned. Two types. Giant and Junior—five sizes in each type.

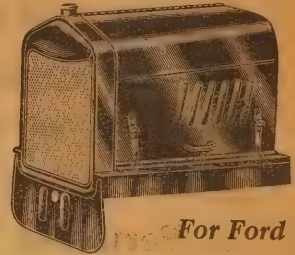
There's a Harris Spark Plug in stock for any Automobile, Truck, Motorcycle, Tractor or Gas Engine ever built!

We guarantee "Harris" spark plugs indefinitely to give you best service under all conditions. We will replace free of charge, any "Harris" plug returned to us that fails to completely satisfy you.

4-E-1500. Junior Plugs, each..... **40c**

4-E-1505. Giant Plugs, each..... **75c**
Give size of plug and make of motor.

Combination Radiator Shield and Hood



For Ford Cars

4-E-1506. Made especially to convert 1915 and 1916 Ford cars into the latest models, giving them a modern streamer line effect. The shield adds to the appearance, covering the springs and other unsightly parts. The radiator is equipped with the improved honeycomb core; practically indestructible; all parts coming in contact with water made of brass. Guaranteed to cool the engine. The hood shield and radiator shell or casing are made of heavy wrought steel, finished in black Japan; the honeycomb brass core in gray. Securely packed, weight 60 pounds. Price, complete..... **\$20.00**

Best Auto Signal THE "STARTLER"

The startler signal for automobiles and trucks gives a sharp, clear warning. It is positive in action—prevents accidents. This splendid signal is the only vapor signal that acts when your machine is standing still and your engine running idle. Quickly and easily attached on any cylinder in place of a cup. Unusually well made and nicely finished. It is operated from a control cord which is run from the signal to the steering column. Especially valuable in traveling on country roads on account of its distinctive tone; so different from the average signal.



\$2.50

4-E-976. Automobile signal. Each..... **\$2.50**

HIGH GRADE AUTO JACKS

\$1.40

Guaranteed
Strong
and
Durable



4-E-977. A carefully designed jack for light weight cars quickly and easily adjusted to different heights by spinning the top gear. Only four working parts; self locking at any point; three sizes.

Capacity	Lowered	Raised	Height	Price
2,000 lbs.	8 in.	12 in.	12 in.	\$1.40
2,000 lbs.	10 in.	16 in.	16 in.	1.50
2,000 lbs.	12 in.	20 in.	20 in.	1.75

\$1.75



4-E-971. Designed for speed. The crank mechanism on side gear does away with pumping when raising or lowering the rod. Strong and well made; nicely finished; three sizes.

Capacity	Lowered	Raised	Height	Price
4,000 lbs.	8 1/2 in.	14 in.	14 in.	\$1.75
4,000 lbs.	10 1/2 in.	18 in.	18 in.	2.10
6,000 lbs.	12 in.	20 in.	20 in.	2.75

Grease Cup Wrench

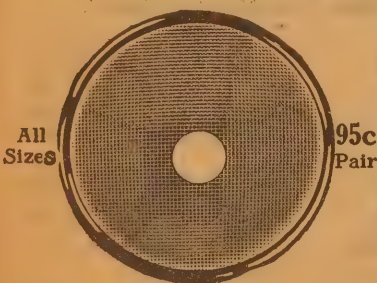


Finely
Made

75c

4-E-1509. A simple inexpensive wrench that will prove to be the most handy article in your tool box; made of nickel-plated steel. Fits every auto grease cup made—all sizes and types. Needs no adjusting. With this wrench you can turn your grease cups easily and quickly without soiling your hands or clothes. Price, each..... **75c**

Anti-Glare Auto Lenses



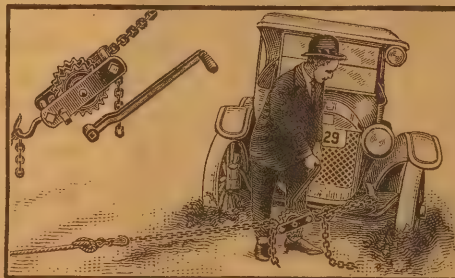
All
Sizes

**95c
Pair**

Flood the road ahead for 600 feet in front of your car with a strong but softened light, revealing everything on either side at a distance of 30 feet.

An extra fine lens with 2,000 prisms out on the inner side with a "bull's eye" pointing down just below the center, shooting a clear ray of light downward. The outside surface is smooth—proof against dust, mud, rain and snow.

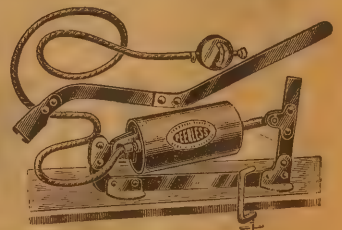
5-E-1511. Sale price (give exact diameter of your present lenses), per pair..... **95c**



Auto Liftout

4-E-978. This simple device will prove to be the most necessary and important part of your equipment. On the road and in the garage, it is dependable, quickly and easily adjusted. Will lift your car out of the deepest ruts. Offers a splendid garage hoist, enabling you to raise your car to any convenient height for working underneath. The car leverage afforded by the patented construction enables you to move or lift a car of any weight with little exertion. Furnished complete with 8-ft. pulling chain and 4-ft. anchor chain with hooks. Self locking. Price..... **\$20.00**

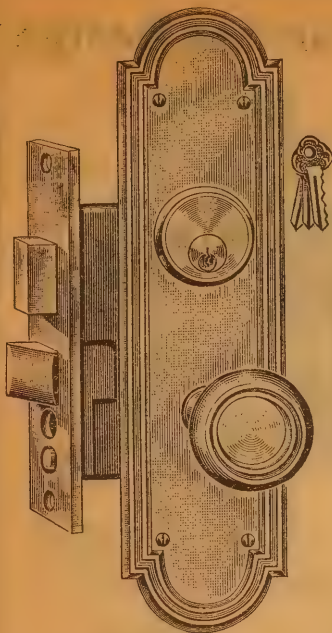
Auto Tire Pump



4-E-1510. Quick acting auto tire pump; can be attached to the running board of any machine. Durably constructed; guaranteed for the life of your car. Each pump is equipped with gauge, indicating the power pressure. Detachable handle; will fit in a small tool box. Nicely finished in red and black Japan, two coats baked on. Complete without gauge. Price, each..... **\$4.75**

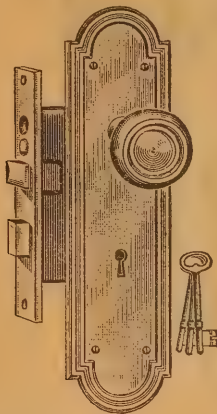
Ardmore Design Lock Set

Wrought bronze and wrought steel in beautiful French sanded finish with high spots polished. Material and workmanship of the highest quality. These lock sets are recommended for the most elaborate and beautiful homes.



Cylinder Lock Set

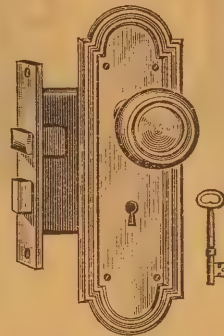
4-E-3364. Genuine wrought bronze, 5-pin tumbler, non-pickable lock. Escutcheon $11\frac{1}{2}$ inches long, 3 inches wide. Flat face seamless knobs, $2\frac{1}{4}$ inches in diameter. Cylinder escutcheon, knobs and all parts genuine wrought bronze. Reversible for right or left door, $1\frac{1}{2}$ to $2\frac{1}{4}$ inches thick. Furnished with 3 keys and screws to match. French sanded finish. Price..... **\$11.00**



Bit Key Lock Sets

4-E-3365. Escutcheons, knobs and all parts genuine wrought bronze. Escutcheon plate, $8\frac{1}{2} \times 2\frac{1}{2}$ inches. Flat face, seamless knob, $2\frac{1}{4}$ inches in diameter. Reversible for right or left hand door. Furnished with 3 keys and screws to match lock set. French sanded finish. Price..... **\$4.50**

4-E-3366. Wrought steel, same as described above, except that escutcheon, knobs and all parts are of wrought steel plated. French sanded finish. Price..... **\$3.00**



Inside Door Lock Set

4-E-3367. Escutcheons, knobs and all parts of genuine wrought bronze. Escutcheon, $8\frac{1}{2} \times 2\frac{1}{2}$ inches. Flat face, seamless knob, $2\frac{1}{4}$ inches in diameter. Reversible for right or left doors. Furnished with one key and screws to match. French sanded finish. Price..... **\$2.60**

4-E-3368. Wrought steel same as described above, except furnished with plated wrought steel knob, escutcheon and trimmings. Price..... **\$1.25**



Push Plates

4-E-3369. Genuine wrought bronze push plate for swinging doors, French sanded finish. Furnished with screws to match. Platesize, $11\frac{1}{2} \times 3$ ins. Price, each..... **\$1.50**

Kenilworth Design Lock Set

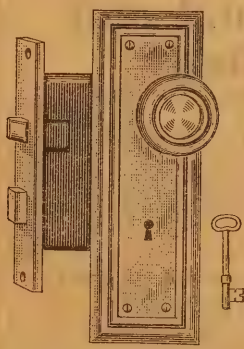
Are of the broad beveled pattern. The simple design gives them the appearance of the heavy cast bronze lock set. These sets are French sanded finish. Finest material and workmanship.



Push Plates

4-E-3370. Genuine wrought bronze push plate for swinging doors. French sanded finish. Furnished with screws to match. Plate size, $10\frac{1}{2} \times 2\frac{1}{4}$ inches. Price, each..... **\$1.40**

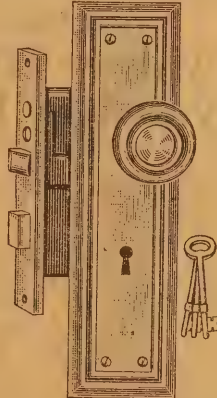
Glass Push Plates
4-E-3370 1/2. Made of heavy plate glass, edges beveled; ground and smoothly finished; size $3\frac{1}{2} \times 12$ inches. Two nickel-plated screws. Price, each..... **70c**



Inside Door Lock Set

4-E-3371. Escutcheon, knobs and all parts of genuine wrought bronze. Escutcheon, $8\frac{1}{2} \times 2\frac{1}{2}$ inches. Flat face, seamless knob, $2\frac{1}{4}$ inches in diameter. Reversible for right or left doors. Furnished with one key and screws to match. French sanded finish. Price..... **\$2.40**

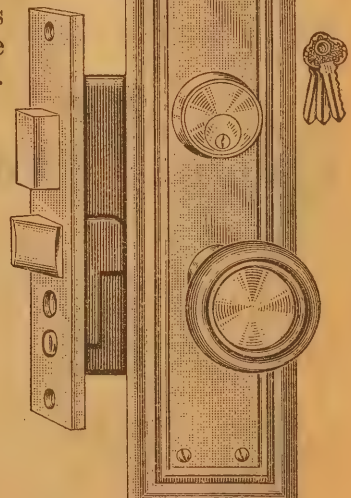
4-E-3372. Wrought steel plated as described above, except furnished with plated wrought steel knob, escutcheon and trimmings. Price..... **\$1.15**



Bit Keyed Lock Set

4-E-3373. Escutcheons, knobs and all parts genuine wrought bronze. Escutcheon plate, $8\frac{1}{2} \times 2\frac{1}{2}$ ins. wide. Flat face, seamless knob, $2\frac{1}{4}$ inches in diameter. Reversible for right or left door. Furnished with three keys and screws to match lock set. French sanded finish. Price..... **\$4.25**

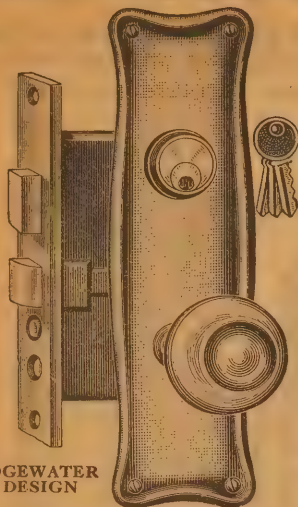
4-E-3374. Wrought steel, same as described above, except that escutcheon, knobs and all parts are of wrought steel plated. French sanded finish. Price..... **\$2.75**



Cylinder Lock Set

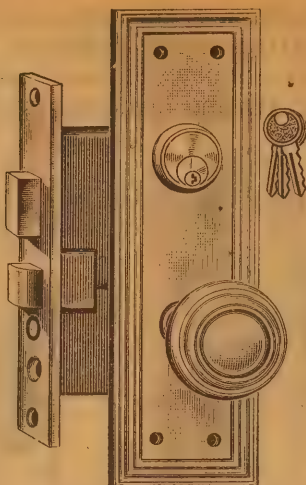
4-E-3375. Genuine wrought bronze 5-pin tumbler, non-pickable lock. Escutcheon, $11\frac{1}{2}$ inches long, 3 inches wide. Flat face seamless knobs, $2\frac{1}{4}$ inches in diameter. Cylinder escutcheon, knobs and all parts genuine wrought bronze. Reversible for right or left door, $1\frac{1}{2}$ to $2\frac{1}{4}$ inches thick. Furnished with 3 keys and screws to match. French sanded finish. Price..... **\$10.25**

Edgewater Design Colonial Design Evanston Design

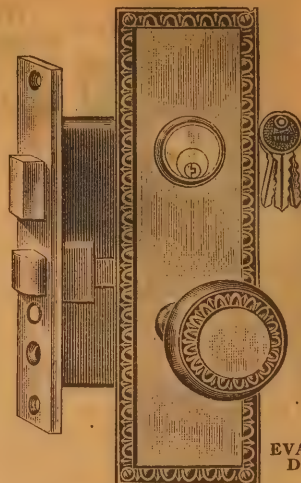


EDGEWATER
DESIGN

4-E-3001 Cylinder Lock Set

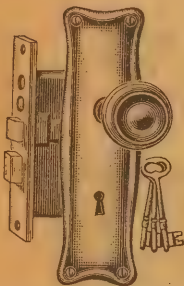


COLONIAL DESIGN
Cylinder Lock Set 4-E-3029

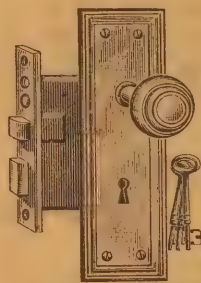


EVANSTON
DESIGN

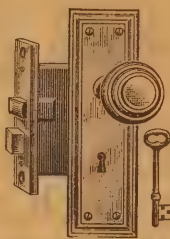
4-E-3101 Cylinder Lock Set



EDGEWATER DESIGN
Bit Keyed Lock Set
4-E-3005



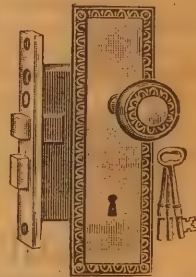
COLONIAL DESIGN
Bit Keyed Lock Set
4-E-3033



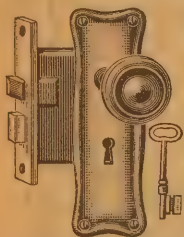
COLONIAL DESIGN
Inside Door Lock Set
4-E-3045



COLONIAL DESIGN
Push Plate
4-E-3065



EVANSTON DESIGN
Bit Keyed Lock Set
4-E-3105



EDGEWATER DESIGN
Inside Door Lock Set
4-E-3010



EDGEWATER DESIGN
Push Plate
4-E-3021

Your Choice of Edgewater, Colonial and Evanston Designs

Give Number and Name and Finish When You Order

Genuine wrought bronze, cylinder lock sets, highest quality workmanship, material and finish. These locks are 5-pin tumbler, non-pickable cylinder. The cylinder, bolts, strike-plates, escutcheons and all parts are of genuine wrought bronze. Reversible for right or left doors, from 1½ to 2¼ inches thick, furnished with three keys and screws finished to match lock set. Antique Copper or Lemon Brass Finishes.
Price, either design.....\$9.40

BIT KEYED FRONT DOOR LOCK Genuine Bronze

Escutcheons, knobs, bolts and all parts made of genuine wrought bronze. Reversible for right or left door. Furnished with three keys and screws finished to match lock sets. Antique Copper or Lemon Brass Finishes.
Price, either design.....\$3.50

BIT KEYED FRONT DOOR LOCK

Wrought steel plated lock set as described above except furnished with plated steel escutcheons, knobs, and all parts. Antique Copper or Lemon Brass Finishes.
Price, either design.....\$2.25

INSIDE DOOR LOCK SET Genuine Bronze

Escutcheons, knobs and all parts made of genuine wrought bronze. Reversible for right or left door. Furnished with one key and screws finished to match lock set. Antique Copper or Lemon Brass Finishes.
Price, either design.....\$2.10

INSIDE DOOR LOCK SET

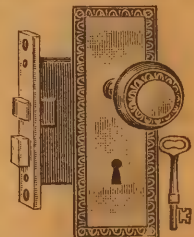
Wrought steel plated as described above. Set furnished with plated steel escutcheon, knobs and all parts. Antique Copper or Lemon Brass Finishes.
Price, either design.....95c

PUSH PLATES FOR SWINGING DOORS

Genuine Wrought bronze. Furnished with screws to match. Antique Copper or Lemon Brass Finishes.
Price, either design, each.....70c

DOOR BELLS

Genuine wrought bronze plate, size 4x3½ nickel plated bell, metal gong. Antique Copper or Lemon Brass Finishes.
Price, either design.....90c

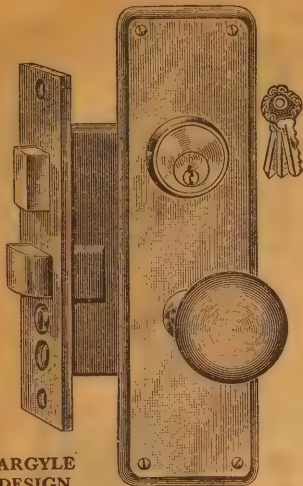


EVANSTON DESIGN
Inside Door Lock Set
4-E-3117



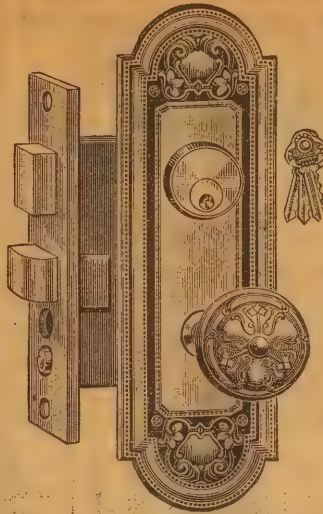
EVANSTON DESIGN
Push Plate
4-E-3137

Argyle Design Oak Park Design Wilmette Design

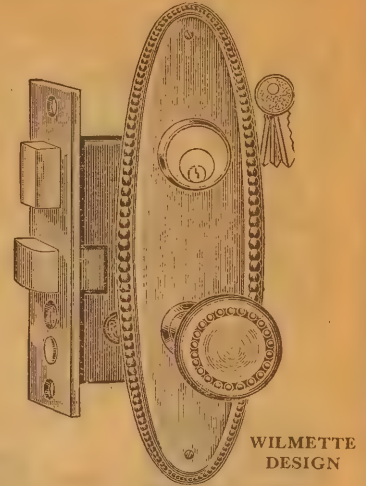


ARGYLE
DESIGN

4-E-3301. Cylinder Lock Set

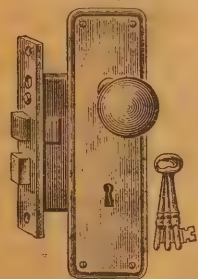


OAK PARK DESIGN
Cylinder Lock Set
4-E-3245.

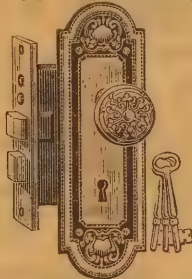


WILMETTE
DESIGN

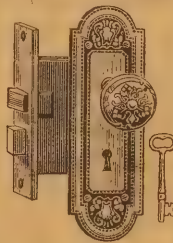
4-E-3201. Cylinder Lock Set



ARGYLE DESIGN
Bit Keyed Lock Set
4-E-3305



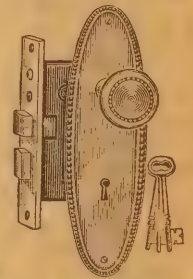
OAK PARK DESIGN
Bit Keyed Lock Set
4-E-3249



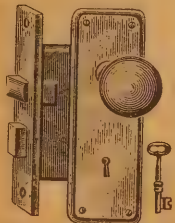
OAK PARK DESIGN
Inside Door Lock Set
4-E-3261



OAK PARK DESIGN
Push Plate
4-E-3281



WILMETTE DESIGN
Bit Keyed Lock Set
4-E-3205



ARGYLE DESIGN
Inside Door Lock Set
4-E-3317



ARGYLE DESIGN
Push Plate
4-E-3337

Your Choice of Argyle, Oak Park and Wilmette Designs Give Number, Name and Finish When You Order

Genuine wrought bronze, Cylinder Lock Sets, highest quality workmanship, material and finish. These locks are 5-pin tumbler, non-pickable cylinder. The cylinder, bolts, strike-plates, escutcheons and all parts are of genuine wrought bronze. Reversible for right or left doors, from 1½ to 2¼ inches thick, furnished with three keys and screws, finished to match lock set. Antique Copper or Lemon Brass finish.
Price.....\$9.40

BIT KEYED FRONT DOOR LOCK Genuine Bronze

Escutcheons, knobs, bolts and all parts made of genuine wrought bronze. Reversible for right or left door. Furnished with three keys and screws finished to match lock sets. Antique Copper or Lemon Brass finish.
Price.....\$3.50

BIT KEYED FRONT DOOR LOCK

Wrought steel plated lock set as described above except furnished with plated steel escutcheons, knobs and all parts. Antique Copper or Lemon Brass finish.
Price.....\$2.25

INSIDE DOOR LOCK SET Genuine Bronze

Escutcheons, knobs and all parts made of genuine wrought bronze. Reversible for right or left door. Furnished with one key and screws finished to match lock set. Antique Copper or Lemon Brass finish.
Price.....\$2.10

INSIDE DOOR LOCK SET

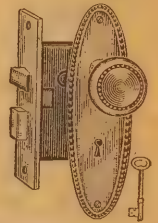
Wrought steel plated as described above. Set furnished with plated steel escutcheons, knobs and all parts. Antique Copper or Lemon Brass finish.
Price.....95c

PUSH PLATES FOR SWINGING DOORS

Genuine wrought bronze. Furnished with screw to match. Antique Copper or Lemon Brass finish.
Price.....70c

DOOR BELLS

Genuine wrought bronze plate, size 4x3 ½, nickel plated bell, metal gong. Antique Copper or Lemon Brass finish.
Price.....90c



WILMETTE DESIGN
Inside Door Lock Set
4-E-3217



WILMETTE DESIGN
Push Plate
4-E-3237

Big Savings in Dependable Hardware for Builders

**GENUINE WROUGHT
BRONZE CYLINDER
STORE DOOR LOCK
AND HANDLE**

4-E-3355. Antique copper finish. Size of lock, 5x3 1/2 inches, 5 pin tumbler cylinder non-pickable. Size of plates, 3x12 inches. 2 bar handle grips, one for either side of door. 3 German silver keys. Reversible for right or left hand door. Complete with screws to match. Price, per set **\$10.25**

**GENUINE WROUGHT
BRONZE CYLINDER
STORE DOOR LOCK
AND HANDLE**

4-E-3363. Antique copper finish. Size of lock 5x3 1/2 inches, 5-pin tumbler cylinder non-pickable. Size of plates, 3x12 inches. 2 handles, 1 for either side of door. 3 German silver keys. Complete with screws to match. Price, per set **\$11.75**

French Window or Screen Door Set

Reversible Rim latch, size 2x2 3/8 inches. Escutcheon, 1 1/2 x 4 1/2 ins. Can be set by slide knob, which prevents opening from outside.

4-E-15012. Lemon Brass. 65c
4-E-15013. Antique Copper. 65c
4-E-15014. Sand Finish. 75c

**DOOR PUSH
PLATES**
Size, 2 1/4 x 9 1/4 inches, finely finished with screws to match.

**GENUINE
BRONZE
METAL**
4-E-3583. Antique Copper finish. Each **45c**
4-E-3584. Old or Lemon Brass finish. Each **45c**
**WROUGHT
STEEL
PLATED**
4-E-3585. Antique Copper finish. Each **22c**
4-E-3586. Old or Lemon Brass finish. Each **22c**

**WROUGHT STEEL
ELECTRO BRONZE PLATED
STORE DOOR HAND-
LE AND LOCK SETS**

4-E-3359. Antique Copper finish. Size of lock, 4 1/4 x 3 1/4 ins. Size of plates, 3x12 inches. 3 handles, one for either side of door. 2 nickel plated flat steel keys. Reversible for right or left hand doors. Complete with screws to match. Price, per set **\$3.45**

**GENUINE
WROUGHT
BRONZE
PLATED**
**STORE DOOR LOCK SET
AND HANDLE**
4-E-3361. Same as 4-E-3359, except plates, handles, bolts, strike and trimmings are genuine wrought bronze with screws to match. Price, per set **\$6.75**



**HORIZONTAL RIM
DEAD LOCKS**

Size, 2x2 3/4 inches. Japanese iron case and escutcheons, iron key. Complete with screws.

4-E-3433. Lock only, without knobs. 24c
4-E-3435. With brown mineral knobs. 44c
4-E-3437. With jet knobs. Per set **46c**

RIM LOCKS

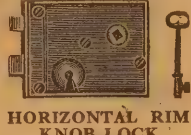


**UPRIGHT RIM KNOB
LOCK**

Size, 4x3 1/4 inches, with stop, iron bolts and tinned malleable key.

4-E-3409. Lock only, without knob. Each **30c**
4-E-3411. With brown mineral knob. Per set **50c**
4-E-3413. With jet knob. Per set **50c**

Heavy Japanese Cases. Reversible for right or left hand doors. Packed complete with screws. Each lock fully warranted.



**HORIZONTAL RIM
KNOB LOCK**

Size, 3 3/4 x 4 1/4 inches. With iron bolts, tinned malleable key.

4-E-3421. Lock only without knob. Each **30c**
4-E-3423. With brown mineral knobs. Per set **50c**
4-E-3425. With jet knobs. Per set **50c**



**UPRIGHT RIM KNOB
LOCK**

Size, 4x3 1/4 inches, 3 brass plated bolts, nickel-plated steel key.

4-E-3415. Lock only, without knob. Each **35c**
4-E-3417. With brown mineral knobs. Per set **55c**
4-E-3419. Black jet knob. Per set **55c**



**HORIZONTAL RIM
KNOB LOCKS**

Size, 3 3/4 x 4 1/4 inches. 3 brass bolts, nickel-plated steel key.

4-E-3427. Lock only, without knob. Each **55c**
4-E-3429. With brown mineral knob. Each **75c**
4-E-3431. With jet knob. Per set **77c**



**STORE DOOR RIM
DEAD LOCK**

4-E-3439. Strong and durable. Japanese iron case, 5x3 1/4 inches. Heavy wrought iron bolts, steel inside bolts, 2 nickel-plated, steel folding keys. Complete with screws. Price **\$1.00**



**TUBULAR RIM NIGHT
LATCH**

4-E-3449. Japanese iron case, sizes 3 1/2 x 2 1/2 inches. For doors up to 1 1/4 inches thick. Japanese case, iron bolts, nickel-plated flat steel keys, bronze metal escutcheons, beveled strike with screws reversible. Price **85c**

MORTISE DOOR LATCHES

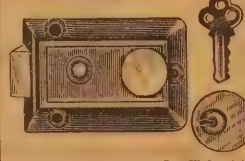


Japanese case, 3 1/4 x 3 1/4 inches. Iron bolts, laquered front and strike, tinned key, Japanese escutcheon with screws.

4-E-3453. Locks only, without knobs. Each **40c**
4-E-3455. With brown mineral knobs. Each **60c**
4-E-3457. With jet knobs. Each **61c**

Japanese case, 3 1/4 x 3 1/4 inches. Brass front and bolts, plated strike, nickel plated steel key, Japanese escutcheon with screws.

4-E-3459. Locks only without knobs. Each **92c**
4-E-3461. With brown mineral knobs. Per set **\$1.12**
4-E-3463. With jet knobs. Per set **\$1.14**



**CYLINDER RIM NIGHT
LATCH**

4-E-3489. A durable lock which affords the utmost security. Size, 3 1/4 x 2 1/4 inches, with genuine bronze metal bolts, cylinder, escutcheon, knob and stop. 3 Yale pattern German silver keys, suitable for doors up to 3 inches thick. Price **\$2.25**



**HORIZONTAL RIM
KNOB LATCHES**

Size 2 1/4 x 3 1/4 in. Japanese case, iron bolt any hub, with screws reversible.

4-E-3443. Latch only without knobs. Each **43c**
4-E-3445. With brown mineral knobs. Per set **63c**
4-E-3447. With jet knobs. Per set **63c**

Mortise Door Latches

Japanese Iron Case, 1 1/4 x 3 1/8 inches iron bolts, front and strike.

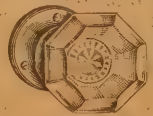
4-E-3467. With brown mineral knobs. Each **40c**
4-E-3469. With jet knobs. Each **40c**
4-E-3465. Latch only. Each **22c**

Japanese Iron Cases, 1 1/4 x 3 1/8 inches. Brass front, bolt and strike.

4-E-3471. Latch only without knobs. Each **44c**
4-E-3473. With brown mineral knobs. Per set **65c**
4-E-3475. With jet knobs. Per set **65c**



4-E-1209



4-E-1210



4-E-1211

Glass Door Knobs with bronze metal shank and rosette. Rosette finished in Antique Copper or Lemon Brass. Price, each **\$1.75**
4-E-1212. Nickel Plated Rosette. **\$1.90**

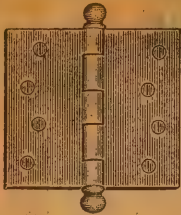


Rim Knobs Mortise Knobs

Strictly first quality. Japanese shanks and roses. Knobs 2 1/4 inches in diameter with 3/8 inch spindles. Price includes one pair knobs, complete with connecting spindle. Mineral knobs are brown mottled; porcelain knobs are white; jet knobs are black.

4-E-3477. Mineral knobs for rim locks. Each **20c**
4-E-3479. Porcelain knobs for rim locks. Each **20c**
4-E-3481. Jet knobs for rim locks. Each **20c**
4-E-3483. Mineral knobs for mortise locks. Each **22c**
4-E-3485. Porcelain knobs for mortise locks. Each **22c**
4-E-3487. Jet knobs for mortise locks. Each **22c**

Every Needed Item in Select Builders' Hardware



High Grade Electro-Plated Polished Wrought Steel Ball Tipped Butts

Tipped Butts. Guaranteed to be the best finished wrought steel butts manufactured. Heavy, highly polished and finely finished. Furnished with screws to match.

4-E-3501. Antique Copper, polished finish.

4-E-3503. Lemon Brass Finish.

Inch. 2x2	2 1/2x2 1/2	3x3	3 1/2x3 1/2	4x4	4 1/2x4 1/2	5x5
Per pr. 63c	69c	78c	81c	93c	\$1.15	\$1.68

4-E-3502. Sand finish, and
4-E-3504. Nickel-Plated finish.

Inch. 2x2	2 1/2x2 1/2	3x3	3 1/2x3 1/2	4x4	4 1/2x4 1/2	5x5
Per pr. 76c	78c	85c	90c	\$1.02	\$1.25	\$1.88

Japanned Loose Pin Ball Tipped Steel



4-E-3577. Made of heavy steel, nicely Japanned. Screws not included.

Inch. 2 1/2x2 1/2	3x3	3 1/2x3 1/2
Per pair 23c	25c	29c

Inch. 4x4	4 1/2x4 1/2	5x5
Per pair 35c	50c	80c

Electro-Plated Planished Ball Tipped Butts

Electro-Plated, Planished. Made of the same grade steel and generally sold as a polished butt. In every sense equal to the high grade butts, except not as finely finished. Furnished with screws to match.

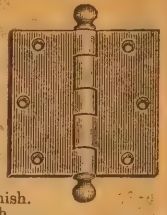
4-E-3505. Antique Copper finish.

4-E-3507. Lemon Brass finish.

Inch. 2x2	2 1/2x2 1/2	3x3	3 1/2x3 1/2	4x4	4 1/2x4 1/2
Per pair 30c	33c	35c	36c	45c	65c

4-E-3506. Sand finish, or
4-E-3508. Nickel-Plated finish.

Inch. 2x2	2 1/2x2 1/2	3x3	3 1/2x3 1/2	4x4	4 1/2x4 1/2
Per pair 37c	38c	40c	45c	55c	80c



Electro-Plated Planished Steel Butts



Heavy wrought steel, fast pin, finely finished, with screws to match.

4-E-3581. Antique Copper finish.

Inch. 2 1/2x2 1/2	3x3	3 1/2x3 1/2
Per pair 24c	26c	30c

Narrow Fast Pin Wrought Steel Butts

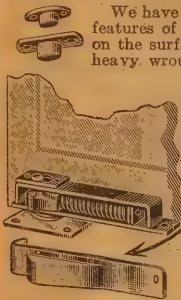
4-E-3579. Plain, without screws. Strong, substantial butts. Made for all general purpose work. Plain finish.

Bright Steel Butts

Inch. 1 1/2	2	2 1/2	3
Dozen pairs 48c	70c	80c	\$1.15



The Harris Double Acting Ball Bearing Floor Hinge



We have overcome the objectionable features of most floor hinges that rest on the surface of the floor, made from heavy wrought steel; the spring from the best oil tempered spring steel; the floor plate from steel. When in practical use the entire weight of the door is carried on hardened steel ball bearings set in hardened cups.

4-E-3545. Antique Copper or **4-E-3547**

Lemon Brass. \$1.10

4-E-3546. Sand Finish

or **4-E-3548.** Nickel-Plated Finish. \$1.35

Cabinet Hinges



For cabinets, china closets, etc. Wrought steel, beautifully finished, strong and durable. Fast pin. Size 2 1/2 by 2 inches. Packed with screws to match.

4-E-3537. Antique Copper finish, and

4-E-3539. Lemon Brass finish. pair 17c

4-E-3538. Sand finish

or **4-E-3540.** Nickel-Plated finish. pair 20c

Gravity Hinge



CLARK'S GRAVITY BLIND HINGES

4-E-3441. For frame houses. Throws blind 1 1/4 inches from casing. Set includes four hinges and two fasteners. Flat head screws are to be used with these sets.

Per set. 25c

Ornamental Electro-Plated Surface Butts

Most artistic and the best appearing butt manufactured. Heavy and strongly made raised design, giving a massive appearance, beautifully finished. Exceedingly popular, economical and time saving.

They are reversible for right or left hand doors. Size 1 1/2 inch is used largely for Cupboards, Cabinets, Closets, etc. All sizes are loose pin with ball tip. Size given is length of joint. Packed with screws to match.

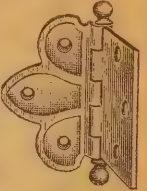
4-E-3533. Antique Copper finish.

4-E-3535. Old or Lemon Brass finish.

Size, inches. 2x2 1/2	1 1/2	3	3 1/2	4
Price, per pr. 34c	18c	40c	45c	58c

4-E-3534. Sand finish or **4-E-3536.** Nickel-Plated finish.

Inch. 1 1/2	2x2 1/2	3	3 1/2	4
Per pair 20c	40c	48c	54c	66c

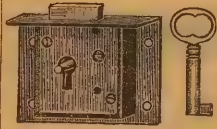


Cabinet and Cupboard Hardware



Cupboard Locks

4-E-3835. Two. Secure Levers. For right or left hand door. Wide Bolt. Width 1 1/2 inches, length 3 inches. With one Fancy Bow Key. Each. 59c



4-E-3831 DRAWER LOCKS

2 1/4 in. wide. Has two secure levers for wood 1/4 in. thick. One key.

Each. 60c

4-E-3832. Brass

Drawer Locks. Same as above.

Each. 74c



4-E-3833 SELF-LOCKING CHEST LOCKS

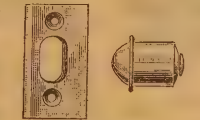
All Iron with Brass

Keyhole Escutcheon.

Double-bitted keys.

Width 2 1/2 inches.

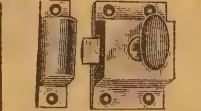
Each. 75c



Door Latch

4-E-1264. Metal Spring Door Catches for use on Book Cases, Medicine Cabinets, Linen Cabinets and China Cabinet Doors. Furnished with Metal Striking Plate. Finished in Antique Copper or Lemon Brass.

Each. 12c



CUPBOARD TURNS

Electro-Plated, Polished Wrought Steel

4-E-3596. Antique Copper, or **4-E-3597.** Lemon Brass.

Each. 14c

4-E-3596 1/2. Nickel-Plated. 16c

4-E-3597 1/2. Sand finish. 16c

Each. 16c



Cupboard Catches

Electro-Plated, Polished Wrought Steel with screws to match.

4-E-3591. Antique Copper

4-E-3592. Lemon Brass

Each. 13c

4-E-3591 1/2. Nickel-Plated

4-E-3592 1/2. Sand finish

Each. 15c



4-E-1230. Metal Drawer Knobs. Size 1 in. Used on Cabinets, Buffets, China Closets, etc. Furnished in Lemon Brass or Antique Copper. Price, each. 14c



4-E-1235. Crystal

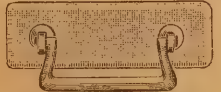
Glass Knobs for Medicine Cases, Cabinets, etc. Made of clear glass, beautifully designed. Nickel-plated bolt and nut.

3/4 in. Each 12c

1 1/2 in. Each 15c

1 1/2 in. Each 18c

1 3/4 in. Each 20c



CONCORD DROP HANDLE

A neat and simply designed handle, suitable for buffets, sideboards and china closets. Unusually well made and nicely finished.

4-E-15016. Antique Copper. Price, each. 30c

4-E-15017. Lemon Brass. Price, each. 30c



Cast Iron Drawer Pull

A very popular drawer pull, owing to the fact that it is applied with machine screws through the wood from the inside, making it stationary. Is suitable for drawers, buffets, bookcases, china cases, etc.

4-E-15018. Antique Copper. Price, each. 12c

4-E-15018 1/2. Nickel-Plated. 16c

4-E-15019 1/2. Sand Fin. 16c

4-E-15019. Lemon Brass. Price, each. 12c



WROUGHT STEEL DRAWER PULL

Wrought steel electro-plated with screws to match. Length 3 3/4 inches.

4-E-3623. Antique Copper, polished finish.

Each. 4c

4-E-3623 1/2. Nickel-Plated. 5c

4-E-3625. Old or Lemon Brass finish.

Each. 4c

4-E-3625 1/2. Sand finish. 5c



DRAWER PULL

4-E-3649.

Drawer pulls used on cabinets, buffets and cupboards. Screws to match. Antique Copper or Lemon Brass finish.

Price, each. 5c

Per dozen. 50c

Cremorne Bolts for French Windows or Large Casement Sash

Cast iron bolt specially adapted for French windows, or large casement sash and is furnished with universal strikes. Unless otherwise specified, will be furnished with rods for sash up to 8 feet high.

This is the only bolt that will hold the sash in place and prevent warping.

4-E-15000. Antique Copper. Price each. \$7.10
4-E-15001. Lemon Brass. Price each. \$7.10

CAST IRON PLATED

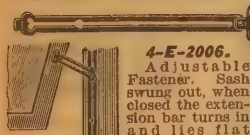
4-E-15002. Antique Copper. Price each. \$4.75
4-E-15003. Lemon Brass. Price each. \$4.75

Sash Hanger



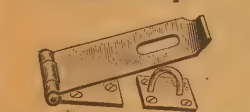
4-E-2005. Storm Sash Hanger. Works like a hinge, one on each corner at top. Simplest contrivance ever devised. Per pair. 10c

Sash Fastener



4-E-2006. Adjustable Fastener. Sash swung out, when closed the extension bar turns in and lies flat against side rail of sash, forming a perfect lock, prevents rattling, holds sash tight. Per pair. 16c
4-E-2007. Set of Hangers and fasteners. 22c

Steel Hasps



4-E-315. Size, 4 1/2 inches. Weight, about 6 oz. With screws. Price. 16c
4-E-316. Size, 6 inches. Weight, about 10 oz. With screws. Price. 23c



Electro Plated Wrought Steel Chain Bolts

Length, 6 inches, with 2 feet of chain. Screws to match.

4-E-3511. Antique Copper. 57c
4-E-3513. Lemon Brass. 57c

FOOT BOLTS

Electro plated, wrought steel, spring release. Length, 6 inches. Screws to match.

4-E-3515. Antique Copper. 57c
4-E-3517. Lemon Brass. 57c

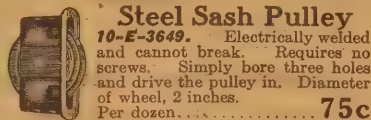


Sash Cord

Made of special selected long fiber cotton, firmly braided. The strongest and most durable manufactured. Put up in bundles of 100 ft.
4-E-3647. No. 8, 3/4 inch diam. \$1.15
6-E-3645. No. 7, 1/2 inch diam. 1.10
Per bundle.



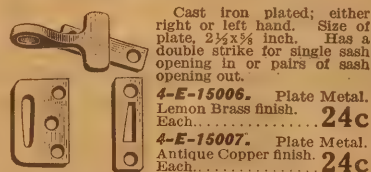
Sash Weights
10-E-3643. Four weights are required to hold each window. Weights range from 3 to 9 pounds by half pounds. Heavier than 9 pounds graduate by pounds. Per pound. 3 1/2c



Steel Sash Pulley

10-E-3649. Electrically welded and cannot break. Requires no screws. Simply bore three holes and drive the pulley in. Diameter of wheel, 2 inches. Per dozen. 75c

Casement Window Fasteners



Cast iron plated; either right or left hand. Size of plate, 2 1/4 x 3/4 inch. Has a double strike for single sash opening in or pairs of sash opening out.

4-E-15006. Plate Metal. Lemon Brass finish. Each. 24c
4-E-15007. Plate Metal. Antique Copper finish. Each. 24c



Spring Sash Balances

4-E-3637. Used instead of sash weights and cord. Easy to apply and do not require box frames. Springs are made of special tempered steel, heavily coppered to prevent rust. Warranted to retain their full strength. Set consists of four balances, two each for top and bottom sash.

Size No.	Weight of each Sash pounds	Hght. of each Sash ins.	Wght. per set of 4 Bal. lbs.	Price per Set of 4 Balances
6	4 to 6	34	6	\$2.10
8	6 to 8	34	6	2.30
10	8 to 10	34	7	2.55
12	10 to 12	44	7	2.75
14	12 to 14	44	7 1/2	3.00
16	14 to 16	44	7 1/2	3.20
18	16 to 18	48	9 1/2	3.40
20	18 to 20	48	10	3.55

Reversible Casement Fasteners



Fasteners. Size. 1 1/4 x 1 1/4 inches. Screws to match.
4-E-3587. Antique Copper. Per set. 18c
4-E-3587 1/2. N. P. 22c
4-E-3588 1/2. Sand Finish. 22c
4-E-3588. Lemon Brass. Per set. 18c
4-E-3589. Antique Copper. Per set. 42c
4-E-3590. Lemon Brass. Per set. 42c

Transom Lifters

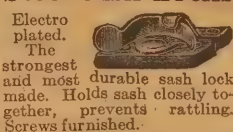


Used in connection with transoms hinged at top, bottom or pivoted in the middle. By means of this lifter, transoms can be opened or locked at any angle affording ample means of ventilation. Strong and durable.

4-E-3519. Plain Coppered Finish. Length, feet 3 4 5
Price, each. 36c 40c 45c

4-E-3521. Electro Bronze Plated. Length, feet 3 4 5
Price, each. 54c 58c 70c

Steel Sash Locks



Electro plated. The strongest and most durable sash lock made. Holds sash closely together, prevents rattling. Screws furnished.
4-E-3601. Antique Copper and Old or Lemon Brass. Each. 7c
4-E-3602. N. P. 10c
4-E-3603 1/2. Sand Finish. 10c

Side Sash Locks



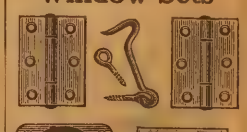
Holds as firm as a vise; prevents rattling of windows. Locks sash securely at any desired height. Convenient for perfect ventilation. Screws to match.
4-E-3607. Antique Copper. Each. 17c
4-E-3607 1/2. N. P. 20c
4-E-3610. Sand Fin. 20c

Sash Fasteners

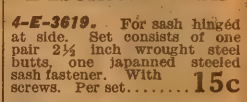


Permits opening of windows at top, bottom or both top and bottom. Electro bronze plated. Screws to match.
4-E-3639. Antique Copper. Each. 30c
4-E-3641. Lemon Brass. Each. 30c

Window Sets

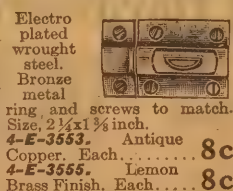


4-E-3619. For sash hinged at side. Set consists of one pair 2 1/4 inch wrought steel butts, one japanned steel sash fastener. With screws. Per set. 15c
4-E-3621. For sash hinged at top. Set consists of one pair 2 1/4 inch wrought steel butts, one japanned steel sash fastener, one hook and eye. With screws. Per set. 16c



4-E-3619. For sash hinged at side. Set consists of one pair 2 1/4 inch wrought steel butts, one japanned steel sash fastener. With screws. Per set. 15c
4-E-3621. For sash hinged at top. Set consists of one pair 2 1/4 inch wrought steel butts, one japanned steel sash fastener, one hook and eye. With screws. Per set. 16c

Transom Catches



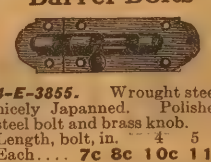
Electro plated wrought steel. Bronze metal ring and screws to match. Size, 2 1/4 x 1 1/4 inch.
4-E-3553. Antique Copper. Each. 8c
4-E-3555. Lemon Brass Finish. Each. 8c

Mortise Door Bolts



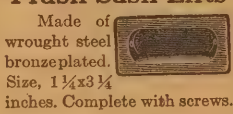
Strong and secure. "T" handle thumb piece. Plates and screws to match.
4-E-3615. Antique Copper. Each. 20c
4-E-3617. Lemon Brass. Each. 20c

Barrel Bolts



4-E-3555. Wrought steel, nicely japanned. Polished steel bolt and brass knob. Length, bolt, in. 4 5
Each. 7c 8c 10c 11c

Flush Sash Lifts



Made of wrought steel bronze plated. Size, 1 1/4 x 3 1/4 inches. Complete with screws.
4-E-3567. Antique Copper. Each. 4c
4-E-3569. Lemon Brass. Each. 4c

Bar Sash Lifts



Electro plated, wrought steel. Length of handle, 3 inches. Length over all, 4 inches.
4-E-3559. Lemon Brass. Each. 6c
4-E-3559 1/2. Sand Fin. 10c
4-E-3557. Antique Copper. Each. 6c
4-E-3557 1/2. N. P. 10c



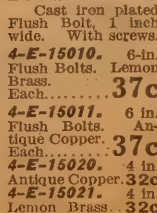
Hook Sash Lifts

Splendid quality, heavy and high grade. Finely finished and made with bevel edges. Size, 1 1/2 inches. Screws to match.

GENUINE WROUGHT BRONZE METAL
4-E-3523. Antique Copper. Polished. Each. 8c
4-E-3525. Lemon Brass Finish. Each. 8c

ELECTRO BRONZE PLATED WROUGHT STEEL
4-E-3527. Antique Copper. Polished. Each. 3c
4-E-3527 1/2. N. P. 5c
4-E-3529. Lemon Brass Finish. Each. 3c
4-E-3529 1/2. Sand Fin. 5c

Flush Bolts



Cast iron plated Flush Bolt, 1 inch wide. With screws.
4-E-15010. 6 in. Flush Bolts. Lemon Brass. Each. 37c
4-E-15011. 6 in. Flush Bolts. Antique Copper. Each. 37c
4-E-15020. 4 in. Antique Copper. 32c
4-E-15021. 4 in. Lemon Brass. 32c



Electro Plated Wrought Steel Chain Bolts

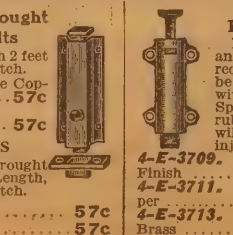
Length, 6 inches, with 2 feet of chain. Screws to match.

4-E-3511. Antique Copper. 57c
4-E-3513. Lemon Brass. 57c

FOOT BOLTS

Electro plated, wrought steel, spring release. Length, 6 inches. Screws to match.

4-E-3515. Antique Copper. 57c
4-E-3517. Lemon Brass. 57c



Swinging Door Holders

For doors where an attachment is required that may be operated easily with the foot. Spring release. The rubber tipped bolt will not mar or injure carpet.
4-E-3709. Japanned Finish. 65c
4-E-3711. Antique Copper. 90c
4-E-3713. Lemon Brass. 90c



Screen Door Catch

4-E-3675. Vienna bronze finish for doors $\frac{3}{4}$ to 1 $\frac{1}{2}$ inches thick. To be used on doors opening outwards. Furnished complete with stop, knobs and screws.
Per set..... **30c**



Screen Door Sets

4-E-3673. Consists of one pair japanned back spring hinges. One steel door pull, one hook and eye, complete with screws.
Per set..... **20c**

General Hardware at Big Savings



Screen Door Hinges

4-E-3679. Hold back spring hinges the strongest and best manufactured. Japanned case. Screws not furnished.
Per pair..... **13c**



Warner Screen Door Hinges

4-E-3685. Made of heavy spring steel wire, copper plated.
Each..... **4c**

Electro Plated Door Pull

4-E-3687.

Wrought steel, antique copper finish. Strong, durable, and well made. Will give long and continued service. $\frac{4}{8}$ ins. long. Each **3c**



Ornamental Thumb Latches and Handles

4-E-3633. Bronze finish. For doors $\frac{3}{4}$ to 1 $\frac{1}{2}$ inches thick. Complete with screws.
Each..... **19c**



Torrey's Ready Door Spring

4-E-3681. Steel Rod door spring. Furnished with a special wrench with each set for adjusting tension. Length, 39 inches.
Each..... **25c**

Spiral Door Springs



4-E-3683. Made from special grade highly tempered steel wire, fastened securely to the bracket and spring holder. Adjustable tension. Length, 10 inches. Price, each..... **18c**

Stop Screw and Washer



4-E-3657. Wrought steel washer. Antique copper finish screw to match. Price, per doz..... **15c**
4-E-3659. Lemon brass finish. Per dozen..... **15c**



Metal Base Knobs. Bronze plated. Extra long heavy screws. Heavy rubber tip. Length, 2 $\frac{1}{2}$ inches.
4-E-3673. Antique Copper. Each..... **8c**
4-E-3674. Lemon Brass. Each..... **8c**



Hardwood Base Knobs

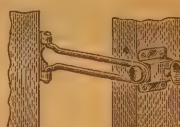
Rubber tipped. Well pointed screws. Nicely finished.
4-E-3672. Each..... **3c**



Door Stops

used to protect furniture or prevent door from striking radiator or wall. Antique Copper, Lemon Brass or Nickel plated finishes. Each..... **10c**

Safety Door Catch



4-E-1363. Safety Door Catch. Made of wrought steel, finished in Lemon Brass or Antique Copper. Complete with screws, each..... **60c**

Door Buttons



4-E-3655. Japanned finish. Length, 1 $\frac{1}{2}$ inches. Per dozen..... **8c**
Length, 2 inches. Per dozen..... **10c**
4-E-3656. Aluminum 1 $\frac{1}{2}$ inches. 14c Doz. No screws.



Cupboard Catches

4-E-3609. Iron Japanned finish. Screws are not furnished. Each..... **4c**

Shelf Supports



Copper plated iron with $\frac{1}{4}$ in. pins. Wt., about 4 ounces.
4-E-3650. Price, per dozen..... **10c**



Felt Weather Strips

4-E-3719. Made of durable black wool felt, $\frac{1}{2}$ in. width for windows, $\frac{3}{4}$ in. width for sides and top of door. $\frac{3}{4}$ in. for bottom of door. Put up 50 ft. to a package.
Inches..... $\frac{1}{2}$ 3c $\frac{3}{4}$ 4c 1 4c
Per foot..... **3c**
Per package..... **\$1.44 \$1.68 \$1.92**



Bright Braided Picture Wire

4-E-3839. Heavily Tinned. Coils guaranteed to contain full 75 feet. Per coil..... **7c**



Bright Wire Screw Eyes

4-E-3850. Gimlet Pointed Screws. Perfectly formed eyes.

Size No.	Length Inches	Per Dozen
105	2	9c
108	1 $\frac{1}{2}$	7c
110	1 $\frac{1}{4}$	5c
112	1 $\frac{1}{2}$	4c
114	1	3c
214	1 $\frac{1}{4}$	3c



Cap Hook

Polished Brass, Full Size. Either kind same price.
4-E-3854. Size, In. Per Doz.
 $\frac{1}{4}$ **7c**
 $\frac{3}{8}$ **8c**
 $\frac{1}{2}$ **9c**
 $\frac{5}{8}$ **10c**
1..... **11c**



Screw Hook

4-E-3853. Full size, perfectly pointed. In ordering:
Length In. Straight Pattern Bent Pattern
Dozen Dozen Dozen
 $\frac{1}{4}$ **4c**
 $\frac{3}{8}$ **5c**
 $\frac{1}{2}$ **6c**
 $\frac{5}{8}$ **7c**
1..... **9c**
1 $\frac{1}{4}$ **14c**



Bright Wire Screw Hooks

Full size, perfectly pointed. In ordering:
Length In. Straight Pattern Bent Pattern
Dozen Dozen Dozen
 $\frac{1}{4}$ **4c**
 $\frac{3}{8}$ **5c**
 $\frac{1}{2}$ **6c**
 $\frac{5}{8}$ **7c**
1..... **9c**
1 $\frac{1}{4}$ **14c**

Rubber Strips

4-E-3717. Seals cracks around windows and doors; made of the best grade rubber, one-half inch wide for windows, three-fourths inch wide for tops and sides of doors, one inch wide for bottom of doors. Put up in packages containing fifty feet.
Inches..... $\frac{1}{2}$ 3c $\frac{3}{4}$ 4c 1 5c
Per ft..... **3c**
Per pkg..... **\$1.45 \$1.90 \$2.40**

Coat, Hat and Umbrella Hook



4-E-3666. Double pattern. Height, 9 inches. Projects from wall 4 $\frac{1}{2}$ inches. Spread 10 inches. Each..... **55c**



4-E-3671. Heavy iron hooks. Suitable for schools and public coat rooms. Japanned finish. Strong and durable. Length, 3 inches. Per dozen..... **60c**



4-E-3674. Japanned iron, a strong, durable hook, with screw end. Quickly and easily put up without the aid of tools. Serviceable and satisfactory. Per dozen..... **50c**



Closet and Wardrobe Hooks
4-E-3669. Made from heavy copper plated plain steel wire. Will not rust. Gimlet pointed screws. Length, 3 inches. Per dozen..... **15c**



Coat and Hat Hooks
4-E-3667. Made of copper plated spring steel wire. Gimlet pointed screws. Length, 3 inches. Per dozen..... **12c**



Coat, Hat and Umbrella Hook
4-E-3663. Electro polished antique copper finish. Screws to match. 7 ins. high, from wall, 4 inches. Each..... **30c**



Box or Truck Casters

4-E-3801. Heavy iron stationary box or truck casters. Strong and substantial. Price does not include screws.
3-inch Wheel. Each..... **36c**
4-inch Wheel. Each..... **45c**



Roller Bearing Truck Casters

4-E-3805. For Trucks, Boxes, Chests or any other purpose where a strong, heavy caster is required.
Size of Wheel Size of Plate Per Set of Four
 $\frac{1}{2}$ 1 $\frac{1}{2}$ x 2 \$0.48
 $\frac{3}{4}$ 1 $\frac{1}{2}$ x 2 \$0.60
 $\frac{1}{2}$ 1 $\frac{1}{2}$ x 2 \$0.75
Size of Wheel Size of Plate Per Set of Four
 $\frac{3}{4}$ 2 $\frac{1}{2}$ x 3 \$1.00
 $\frac{1}{2}$ 3 x 4 \$1.32
 $\frac{3}{4}$ 3 $\frac{1}{2}$ x 4 \$1.98



Stove or Furniture Casters
Heavy stoves easily moved around the house with these Casters. Heavy enough for other furniture. Can be attached to a box or platform.
4-E-3829. Price, per set of 4..... **\$1.70**

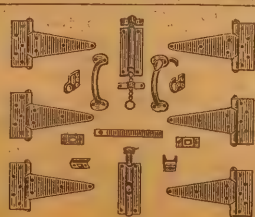
Philadelphia Pattern Furniture Casters

4-E-3828. Furniture Casters, Philadelphia Pattern. $\frac{1}{2}$ -inch bronzed iron wheels. Strong and durable. Per set of 4..... **7c**



Swivel Iron Box or Truck Casters

4-E-3803
3-inch Wheel. Each..... **38c**
4-inch Wheel. Each..... **50c**



Garage Door Set

4-E-1605. Garage Set for double swinging door. Three pair of extra heavy 10 in. "T" hinges, one chain bolt, one foot bolt and two thumb latches, furnished complete with screws. Finished in Black Japan. Set, Complete.... **\$3.75**

Anti-Friction Roller Bearing Casters

Revolves upon a Series of Steel Rollers or Discs. Saves wear and tear on carpets; does not mar the floors.
Size of Wheel, Inches Set of Four
 $\frac{1}{2}$ **\$0.48**
 $\frac{3}{4}$ **.60**
 $\frac{1}{2}$ **.77**
 $\frac{3}{4}$ **1.05**



4-E-3925. Heavy polished Wire Hooks and Eyes.

Length, 2 3 4
Each... 2c 2c 2½c
Dozen... 11c 15c 24c



4-E-3923. Wrought Hooks and Staples.

Length, 4 6
Price, per doz. 40c 78c
Price, each... 4c 7c

Hinges Wrought Steel, Standard Size, Strictly First Quality

Size given is measurement from joint to end of hinge. Without screws.



4-E-3929. Light wrought Steel strap Hinges. Size given is length from joint to end of hinge.

Size, inches... 3 4 5 6
Takes Screw No. 6 7 8 9
Price, per pair... 9c 12c 13c 18c



4-E-3931. Heavy wrought Steel Strap Hinges. Size given is length from joint to end of hinge.

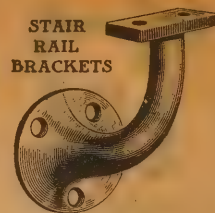
Size, inches... 6 8 10 12 14
Screw No. 10 12 12 14 16
Price, pair... 20c 35c 54c 81c \$1.06



4-E-3933. Wrought steel Screw Strap Hinges. Each pair requires two ¾-inch and four ½-inch bolts to put them on. Bolts are not included at prices quoted.

Size, inches... 10 12 14
Price, per pair... 33c 39c 48c

STAIR RAIL BRACKETS



Projects two inches from wall to center of rail. These brackets are used to support hand railing.

4-E-15022. Copper bronze finish. Each... 12c



4-E-3913. Heavy wrought steel hasp with double hook and staples.

Length, inches... 6 8 10
Price, each... 4c 5c 7c



YANKEE DOOR CATCH

4-E-3915. For holding open swinging doors. Made of cast iron, japanned.

Each... 9c



WROUGHT LIGHT STEEL "T" HINGES

4-E-3927.

Size, inches... 3 4
Price, per pair... 9c 11c
Size, inches... 5 6 8
Price, per pair... 14c 16c 22c



WROUGHT HEAVY STEEL "T" HINGES

4-E-3909. Size... 6 8
Pair... 18c 22c
4-E-3910
Extra Heavy "T" Hinges.
6 ins. 8 ins. 10 ins. 12 ins.
25c 42c 60c 87c
Pr. Pr. Pr. Pr.

PRESSED STEEL BRACKET

PER PAIR, **10c**

4-E-3451. Strong and unbreakable, Japanned finished without screws.

Size, inches... 4x5 6x8 7x9
Price, per pair... 10c 21c 25c
Size, inches... 8x10 10x12 12x14
Price, per pair... 28c 40c 65c

TINNED SAFETY GATE HOOKS AND STAPLES



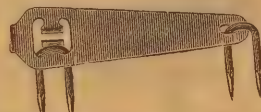
4-E-3961. Length, 4" and 6 inches.
Price, each... 12c 18c

BARN DOOR STAY ROLLERS



Reversible and Adjustable

4-E-3911. Reversible for inside and outside doors. Adjustable for any thickness of door. Diameter of wheel, 2 ins.
Price, each... 12c



4-E-3939. Security Combination Hook and Hasp. Wrought Steel. Length, 8 ins. Each... 8c



4-E-3935. Heavy Wrought Steel Hinge.

Length, inches... 3 6 8 10
Each... 7c 12c 12c 22c



BARN DOOR BOLT

4-E-3907. Heavy pattern, suitable for stable and out-houses. Length, 8 ins. Price, each... 30c

BARN DOOR PULLS

4-E-3963. Extra heavy cast iron. Each... 2c



Barn Door Latch



4-E-3951. Automatic sliding or swinging door latch with attachment for lock. Strong and durable. The latch can be thrown back, leaving the edge of door clear; has inside latch and pull. Price, each... 40c



STEEL CENTER BRACKET

4-E-3905. Steel Center Brackets for track 4-E-3903. Japanned finish complete with lag screw for attaching. Price, each... 18c



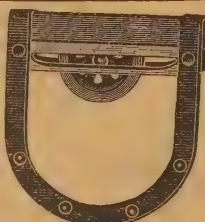
STEEL BARN DOOR TRACK
4-E-3947. Strong and rigid. Suitable for any ordinary door. Size, ½x1 inch. Lengths, 4, 6, 8 and 10 feet.
Price, per foot... 7c



EXTRA HEAVY TRACK
4-E-3949. For use with hinge joint or other styles of barn door hangers. Made of steel. Sizes, 1½x½ inch. Comes in lengths, 4, 6, 8 and 10 feet.
Price, per foot... 9c

HINGE JOINT BARN DOOR HANGERS

4-E-3921. Hinge joint makes it possible to swing the door in or out. Provided with a guard, making it impossible to jump the track. Has chilled roller bearings. Wheel, axles and bearings are fully protected from the weather.
Price, per pair... 90c



LOOSE AXLE ANTI-FRICTION HANGERS

Guaranteed not to bind or jump the track. Wheels are mounted on hardened steel axles. Our prices do not include bolts.

4-E-3941. For doors 6 foot run. Diameter of wheel, 3 inches. Requires ½-inch bolts.
Per pair... \$1.10

4-E-3943. For doors 8-foot run. Diameter of wheel, 4 inches. Requires ½-inch bolts.
Per pair... \$1.35

Barn Door Hangers

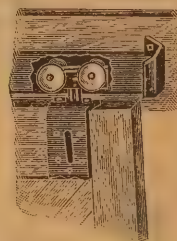


ANTI-FRICTION ROLLER BEARING BARN DOOR HANGERS

Made entirely of steel except the wheel. The axle is of hardened steel. Prices do not include bolts.

4-E-3917. Size of wheel, 3½ inches. For small and medium size doors.
Per pair... 75c

4-E-3919. Size of wheel, 4 inches. Suitable for the largest size doors.
Per pair... 90c



ROLLER BEARING TROLLEY HANGERS

Wheels run inside of hollow steel track. Can not bind or jump the track. Suitable for doors, 1½ to 2½ inches thick. A set consists of two hangers two end brackets and one center bracket. Complete with screws and bolts.

4-E-3901. Price per set, complete without track... \$1.80

4-E-3903. Trolley track for above hangers, brackets not included. Lengths, 4, 5, 6, 8 and 10 feet.
Price, per foot... 22c

GATE HINGE

4-E-3953. Will swing both ways. Does not require spring or weight. Wrought upper hinge, cast lower hinge. Japanned finish. Per set... 90c



GRAVITY GATE LATCH



4-E-3959.

Overcomes shrinking and sagging of gate posts. Made of steel and malleable iron. Easily applied. Price, each 20c

4-E-3957. For right or left hand gates. Also gates that swing both ways. Adjustable to meet any sag in the gate.
Each... 20c



2 in.
75
6 in.
00

The "Colonial" Electric Fixture Set

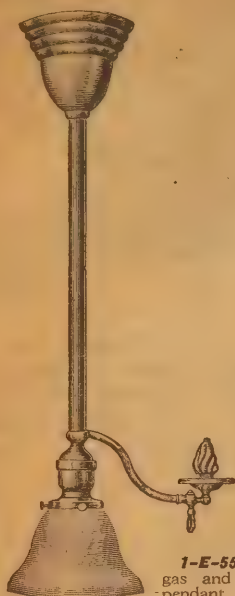
\$1975 For this handsome nine-piece "Colonial" electric fixture set complete with glassware and wiring.

The "Colonial" design electric fixture set includes the fixtures shown on this page, also drop cords for the pantry and basement, listed at bottom of page.

IF YOU NEED A COMPLETE SET of electric fixtures and do not wish to spend much money, we recommend the "Colonial" design electric fixtures. These fixtures are without a doubt the cheapest on the market, but we have not sacrificed workmanship or quality. They are finished and manufactured of the same quality metalware as the highest priced fixtures shown in this book. The patterns are not as elaborate as most of the other electric fixtures shown, but you will be highly pleased with the exceptional value we are offering.

THE FINISH: All the metal parts of these fixtures are made of solid brass except the chains and stem, which are brass plated. The fixtures are furnished in brushed brass and black finish. The bathroom fixture is nickel plated and the porch fixture is finished black. For Oxidized Copper or Silver Gray special finishes, add 20% to these prices.

THE GLASSWARE of the parlor, dining-room and bathroom fixtures are heavy pressed glass which closely resembles real cut-glass. The kitchen, porch and bedroom fixtures have pure white frosted glassware which throws a very soft light. The hall pendant has a frosted shade in a pretty embossed reed and ribbon design.



Kitchen

1-E-551. Combination gas and electric kitchen pendant, has a 4½ in. embossed canopy length 36 in. to the bottom of shade, spread 8 in., 2¼ in. socket cover, key socket. If you do not need the gas combination, this fixture can be furnished for electric only at 55 cents cheaper. (If pull chain socket is wanted, add 45c.)

\$2.95

Price complete as shown.



Bathroom

1-E-552. Bathroom fixture, embossed wall plate 4½ in. in diameter, extends 6 in. from wall, nickel plated so as to match other bathroom fittings; artistic globe closely resembles cut-glassware, 2¼ in. brass shade holder. (Pull chain socket can be furnished at 45c extra.)

\$1.50

Price complete as shown.

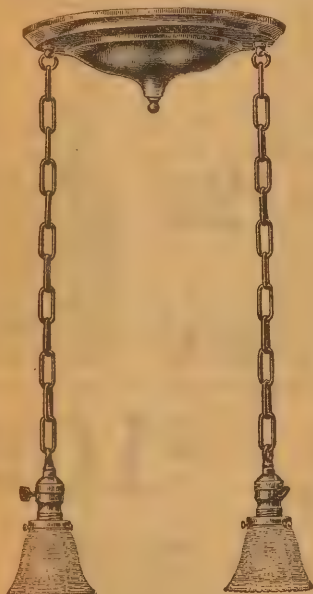


Bedroom

1-E-554. Bedroom pendant 36 in. long to bottom of glassware, has 4½ in. embossed brass ceiling canopy. From the canopy extends a brass plated stem connecting with the brass plated chain, 2¼ in. shade holder, key socket, white crystal roughed inside globe. (If pull chain socket is wanted add 45c.)

\$1.75

Price complete as shown.



Dining Room

1-E-556. Two-light Shower which we have patented for the dining room. However, if you have a den or library, it can be used in either of these rooms. Has 14 in. round embossed spun brass ceiling plate from which hangs two brass plated chains, 2¼ in. brass shade holder. Length 36 in. over all. Furnished with embossed glassware which closely resembles genuine cut-glass, key sockets.

\$4.50

Price complete as shown.

Pantry Drop Cord

1-E-509. One-light pantry drop cord furnished complete with 3 ft. of standard twisted cord, brass canopy, key socket, lamp guard, which prevents lamps from getting broken. (Furnished with pull chain socket at an extra charge of 45c.)

\$1.15



Porch

1-E-553. Porch fixture wired for one light with keyless socket, 3¼ in. brass pan finished a dead black. Weatherproof keyless socket to withstand weather. Furnished with 6 in. crystal roughed inside globe.

\$1.25

Price complete as shown.



Hall

1-E-557. Hall fixture wired for one light with key socket, length to the bottom of glassware 20 in., embossed brass canopy from which extends a brass plated stem connecting with the chain. 2¼ in. brass holder and frosted shade in a handsome reed and ribbon design. (If pull chain is wanted add 45c.)

\$1.50

Price complete as shown.



Living Room

1-E-555. Three-light living room Shower, round embossed spun brass ceiling pan 14 in. in diameter. From the ceiling pan hangs three brass plated chains, which hold three key sockets. 2¼ in. brass shade holder, furnished complete with pressed glassware which closely resembles high grade genuine cut-glass, an inexpensive but very good looking fixture. Price complete as shown.

\$5.25

Basement Drop Cord

1-E-519. Basement drop cord furnished complete with porcelain rosette, porcelain key socket, lamp guard and 3 ft. of weather proof cord. (Can be furnished with pull chain socket at 45c.)

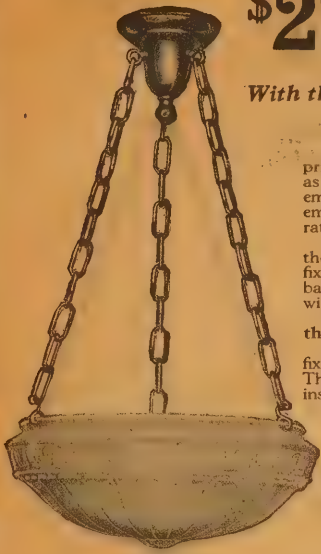
\$1.20

Price complete.

The "Sunshine" Electric Fixture Set

\$27⁹⁵ Will buy this ten-piece "Sunshine" electric fixture set complete with glassware and wiring.

With the "Sunshine" electric fixture set we include a drop cord for the pantry and basement described below.



Living Room

1-E-490. Semi-indirect parlor fixture wired for one light with keyless socket, length 36 in. to bottom of glass bowl, spun brass canopy, which is embossed in a panel design to harmonize with the pretty 15 in. bowl, brass plated chains and brass bowl hooks. Price complete as shown. **\$4.45**



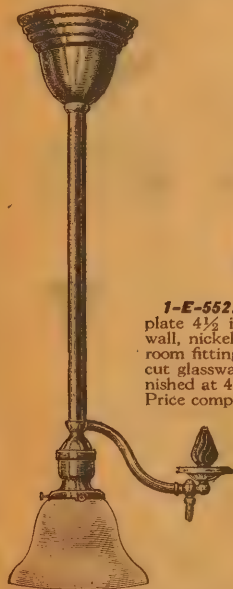
Porch

1-E-553. Porch fixture wired for one light with keyless socket, 3 1/4 in. brass pan finished a dead black, and weatherproof socket to withstand weather. Furnished with 6 in. crystal, roughed inside globe. Price complete as shown. **\$1.25**



Dining Room

1-E-491. Handsome dining room fixture wired for four lights, length 36 in. to bottom of glassware, spread 18 in., has 6 in. embossed brass canopy harmonizing with embossed glassware. From the canopy stem extend three brass hooks on which hang the brass plated chains supporting a 16 in. bowl and three shades. Embossed brass socket covers, one keyless and three key sockets. Price complete as shown. **\$6.95**



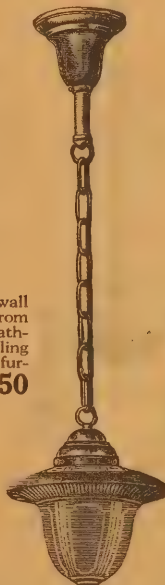
Kitchen

1-E-551. Combination gas and electric kitchen pendant has a 4 1/2 in. embossed canopy, length 24 in. to bottom of shade, spread 8 in. 2 1/4 in. socket cover, key socket. If you do not need the gas combination, this fixture can be furnished for electric only at 55c cheaper. (If chain socket is wanted add 45c.) Price complete as shown. **\$2.95**



Bathroom

1-E-552. Bathroom fixture embossed wall plate 4 1/2 in. in diameter extends 6 in. from wall, nickel plated so as to match other bathroom fittings, artistic globe closely resembling cut glassware. (Pull chain socket can be furnished at 45c extra.) Price complete as shown. **\$1.50**



Hall

1-E-495. Hall pendant wired for one light with keyless socket, 36 in. to the bottom of handsomely designed glass urn, 4 1/2 in. spun brass canopy, brass plated chains. Has 6 in. spun brass holder which supports 8 in. crystal, roughed inside glass urn. Price complete as shown. **\$5.25**



Upper Hall

1-E-496. One-light bracket which we planned for the upper hall, 4 1/2 in. spun brass wall plate with fancy brass plated stem holding brass socket cover which is embossed in the same design, extends 6 in. from wall. This fixture can also be used as a side wall fixture for the living room or dining room. Key socket. (If pull chain is wanted add 45c extra.) Price complete as shown. **\$1.95**



Bedroom

1-E-554. Bedroom pendant, 36 in. long to bottom of glassware, has 4 1/2 in. embossed brass ceiling canopy. From the canopy extends a brass plated stem connecting with the brass plated chain, 2 1/4 in. shade holder, key socket, white crystal roughed inside globe. (If pull chain socket is wanted add 45c extra.) Price complete as shown. **\$1.75**

Pantry Drop Cord

1-E-509. One-light pantry drop cord furnished with 3 ft. of standard twisted cord, brass canopy, key socket, lamp guard, which prevents lamps from getting broken. (Furnished with pull chain socket at an extra charge of 45c.) Price complete. **\$1.15**

Basement Drop Cord

1-E-519. Basement drop cord furnished complete with porcelain rosette, porcelain key socket, lamp guard and 3 ft. of weatherproof cord. (Can be furnished with pull chain socket at 45c extra.) Price complete as shown. **\$1.20**

The "Blackstone" Electric Fixture Set

\$46⁰⁰

Will purchase the "Blackstone" nine-piece electric fixture set complete with glassware and wiring.

This complete "Blackstone" electric fixture set includes a drop cord for the basement and pantry which are at bottom of page.

THE PLEASING DESIGN OF THE "BLACKSTONE" electric fixtures attracts instant admiration. The embossed canopies have a fancy design which harmonizes very nicely with the oak leaf design of the glassware. The fixtures shown are the ordinary requirements of a home, but if you do not need all of the fixtures shown or if you wish to make your own selection, we have priced the fixtures separately for your convenience.

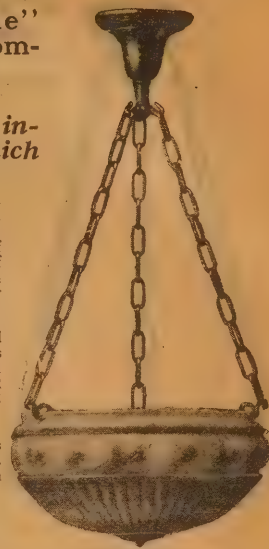
THE FINISH: All metalware of these fixtures is made of solid brass except the chains, which are brass plated. We furnish fixtures in brush brass and black finish which is most serviceable. The porch fixture is furnished in dead black finish. Bathroom fixture is nickel plated. For oxidized copper or silver gray special finishes add 20% to these prices.

THE GLASSWARE of the "Blackstone" design electric fixtures is embossed in an oak leaf pattern. It is satin finished outside and glazed inside, thus reflecting a soft light. This glassware is now furnished in a new finish called the brown tone finish. It is delicately tinted or high-lighted in burnt brown color which cannot be fully appreciated until you have seen it illuminated in your home.



Dining Room

1-E-501. Handsome dining room fixture wired for four lights, length 36 in. to bottom of glassware, spread 18 in., has 6 in. embossed brass canopy harmonizing with embossed glassware. From the canopy stem extend three brass hooks on which hang the brass plated chains supporting a 16 in. bowl and three shades. Embossed brass socket covers, one keyless and three key sockets. Price complete as shown.....**\$14.25**



Living Room

1-E-500. Semi-indirect living room fixture wired with keyless socket for one light, length to bottom of glass bowl 36 in., fancy embossed brass ceiling canopy 6 in. in diameter. From the canopy extends a brass rod on which hangs three brass plated chains supporting a 16 in. fancy bowl. Price complete as shown.....**\$9.15**



Bathroom

1-E-502. One-light bracket for bathroom, extends 6 in. from wall, has 4 1/2 in. brass wall plate, brass plated stem, key socket, 2 1/4 in. shade holders, furnished in nickel plated finish so as to harmonize with the rest of the bathroom fittings. (If pull chain socket is wanted add 45c.) Price complete as shown....**\$1.95**

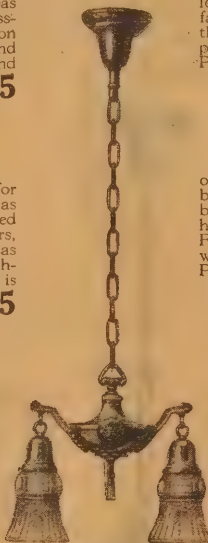
Porch

1-E-503. Porch fixture wired for one light with keyless socket, length to bottom of glassware, 8 in. Has spun brass ceiling ring, and 2 1/4 in. brass holder supporting a 2 1/4 x 8 in. shade. Furnished in dead black finish with weather proof socket. Price complete as shown....**\$2.30**



Hall

1-E-505. Hall pendant wired for one light with keyless socket, length 18 in. to bottom of fancy embossed urn, has 5 in. spun brass canopy brass plated chain, 4-in. spun brass holder supporting a 4 x 8 in. fancy embossed urn. Price complete as shown.....**\$4.55**

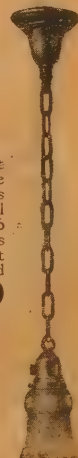


Bedroom

1-E-504. Two-light pendant which we have planned for the master bedroom, library or den, length 36 in. over all, spread 11 in. 5 in. fancy brass canopy, brass plated chain. The spun brass body has applied fancy castings and supports two cast arms which hold the shades. Brass socket covers and key sockets. Fancy tassel hangs from the body. Price complete as shown....**\$9.75**

Kitchen or Bedroom

1-E-506. One-light chain pendant which can be used in the kitchen or the bedroom if desired. The glassware is exactly the same as that used with all other fixtures in this set. Length 36 in., spun brass 5 in. canopy, brass plated chain, 2 1/4 in. brass socket cover. (If pull chain is wanted add 45c.) Price complete as shown....**\$2.10**



Pantry Drop Cord

1-E-509. One-light pantry drop cord furnished complete with 3 ft. of standard twisted cord, brass canopy, key socket, lamp guard, which prevents lamps from getting broken. (If pull chain socket is wanted add 45c.) Price complete.....**\$1.15**

Basement Drop Cord

1-E-519. Basement drop cord furnished complete with porcelain rosette, porcelain key socket, lamp guard and 3 ft. of weather proof cord. (Can be furnished with pull chain socket at 45c extra.) Price complete.....**\$1.20**

The "Berkeley" Electric Fixture Set

\$55³⁰

Will purchase the "Berkeley" nine-piece electric fixture set complete with glassware and wiring.

This complete "Berkeley" electric fixture set includes a drop cord for the basement and pantry listed at bottom of page.



Dining Room

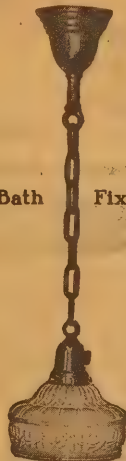
1-E-680. Dining room fixture wired for 5 lights, combining both direct and indirect lighting. Length 36 inches to bottom of bowl. Spread, 17 inches. Bowl measures 12 inches in diameter; 4 small shades to match. Standard sockets. Price, **\$18.25** complete, as shown.



Living Room

1-E-681. Artistic 5-light ball living room lamp electrolier. Length 36 inches to end of glassware, spread 15 inches. Heavy closed body. When frosted ball lights as illustrated are used, the fixture is shown with detachable wreath on the shade holders. This wreath can be removed and is fitted to hold lamp and shades if wanted. Key sockets. Price complete, **\$14.50** as shown.

Bath Fixture



1-E-685. Sanitary bathroom drop fixture. Furnished complete as shown, all white enameled with artistic marble white embossed design shade. Wired complete. Length, 36 inches. Key sockets. Price each, **\$3.45**

Wall Brackets



1-E-684. One-light wall bracket extends 4 3/4 inches. 6 in. brass oval plate. Fancy gas arm. Key socket. Wreath detachable and fitted to hold shade if used in place of ball lamp. Price complete, **\$2.75**



1-E-683. One-light wall bracket. Extends 4 3/4 inches. Made with 6 inch brass oval plate with gas arm. Key socket. Attractive Roman wreath shade. Price complete, **\$2.80**

Hall Fixture

1-E-682. Two-light ball lamp electrolier. Length 36 inches to bottom of glassware. Spread 12 inches. Heavy closed body. Wreath on socket detachable with shade holder to accommodate glassware if used in place of white ball lamp. Price each, **\$7.75**

Pantry Drop Cord

1-E-509. One-light pantry drop cord furnished complete with 3 ft. of standard twisted cord, brass canopy, key socket and lamp guard which prevents lamps from getting broken. (Furnished with pull chain socket at an extra charge of 45c.) Price complete, **\$1.55**

Porch

1-E-516. Cast iron porch bracket with back size 4 1/4 x 7 1/4 in. Extends 6 in. Finished dead black. Weather-proof socket. Frosted glass ball, 3 1/4 x 7 in. Keyless socket. Price, complete, **\$3.65**



Kitchen Fixture

1-E-515. One-light kitchen fixture, length 36 in. over all, spun brass canopy, brass plated chain key socket, 2 1/4 in. holder. Furnished with 60-watt white Luna shade which gives a clear light so necessary in the kitchen. (Pull chain socket can be furnished at an extra charge of 45c.) Price complete, **\$3.50**

Basement Drop Cord

1-E-519. Basement drop cord furnished complete with porcelain rosette, porcelain key socket, lamp guard and 3 ft. of weather-proof cord. (Can be furnished with pull chain socket at 45c.) Price complete, **\$1.60**

ELECTRIC WIRING MATERIAL

New Code Rubber Covered Copper Wire, Single Braid



Used for open wiring on cleats, tubes or knobs and for holding and loom wirings. Each solid strand conductor copper wire insulated with rubber compound around which is single saturated cotton braid. Unbroken coils of 500 feet bear under-writer's inspection tag. Weights per 100 feet, about 3 1/2 to 19 lbs., according to size.

Article Number	Size	100 Feet
4-E-3010	14	\$1.20
4-E-3011	12	1.75
4-E-3012	10	2.25
4-E-3013	8	3.00
4-E-3014	6	4.90
4-E-3015	4	7.15

New Code Twisted Pair Cotton Lamp Cord



Twisted New Code Lamp cord consisting of 2 fine copper conductor strands twisted together. It is covered with fine quality yellow and green interwoven cotton. Made to be used for drop lights, extensions and general small work. Shipping weights per 100 feet, about 6 1/2 to 13 lbs., according to size.

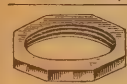
Article Number	Size	100 Feet
4-E-3023	18	\$2.10
4-E-3024	16	2.85
4-E-3025	14	4.20

Weather Proof Copper Wire



Made for outside work, being constructed to stand weather and severe use. Conductor rubber covered wire. Consists of a solid copper wire conductor covered with three layers of waterproof saturated cotton braid insulating material. Shipping weights per 100 feet about 3 to 17 lbs., according to size.

Article Number	Size	100 Feet
4-E-3030	14	\$1.20
4-E-3031	12	1.45
4-E-3032	10	1.95
4-E-3033	8	2.70
4-E-3034	6	3.80
4-E-3035	4	5.00



Conduit Locknuts

Article Number	Size	Ship. Wt.	Per 100
4-E-3042	1/2 in.	1/2 oz.	\$0.78
4-E-3043	3/4 in.	3/4 oz.	1.12
4-E-3044	1 in.	1 oz.	2.10

Porcelain Tubes



Used where wire is drawn through partition or joists. Made of porcelain. Takes single braid rubber covered or waterproof wire. Inside diameter, 3/4 inch. Will take 14, 12 or 10 wire. Inside diameter, 1/2 inch, will take 8, 6 or 4 wire. Length below is measurement from underhead to end

Article Number	Lgth.	Inside Diam.	Per 100	Per 100
4-E-3050	3 in.	3/4 in.	7 1/2 lbs.	\$0.80
4-E-3051	4 in.	3/4 in.	9 lbs.	.90
4-E-3052	6 in.	3/4 in.	13 lbs.	1.40
4-E-3053	8 in.	3/4 in.	15 1/2 lbs.	2.70
4-E-3054	3 in.	1/2 in.	11 lbs.	1.00
4-E-3055	4 in.	1/2 in.	13 1/2 lbs.	1.20
4-E-3056	6 in.	1/2 in.	19 1/2 lbs.	1.70

New Code Parallel Silk Lamp Cord



Insulated lamp cord consisting of two parallel conductors covered with braided silk. Used for portable lamps and extension lights in homes. Large size only, No. 18. Shipping weight, per 100 feet, 5 lbs.

4-E-3020	Per foot.....	5c
	Per 100 feet.....	\$4.50

New Code Duplex Rubber Covered Wire



Used for wiring in metallic conduit. Consists of 2 solid conductors individually insulated with rubber compound over which is placed one layer of saturated cotton braid. Shipping weights per 100 feet, 6 1/4 to 13 lbs., according to size.

4-E-3026	Size 14.	\$2.90
4-E-3027	Size 12	3.90
4-E-3028	Size 10	5.00

(BX) Flexible Armored Cable



A decided improvement over knob and tube wiring. Consists of 2 or 3 solid copper conductors, rubber insulated, with 2 coverings of cotton braid, around which is placed armored flexible steel jacket. Approved by fire underwriters in all localities for use in finished buildings. More easily and quickly installed than iron conduit. Also used for electrical driven machinery where cables are exposed. Shipping weight per 100 feet, 44 to 60 lbs., according to size.

Article Number	No. of Conduits	Gauge B. & S.	Per Foot	100 Feet
4-E-3036	2	14	8c	\$ 7.00
4-E-3037	2	12	12c	11.00
4-E-3038	3	14	12c	11.00



Conduit Bushings

Article Number	Size	Ship. Wt.	Per 100
4-E-3044	1/2 in.	1 oz.	\$1.80
4-E-3045	3/4 in.	1 1/2 oz.	2.70
4-E-3046	1 in.	2 oz.	4.90

Glazed Porcelain Cleats



To be used with either 14, 12 or 10 wire. 2 wire cleats have 2 1/2-inch wire centers; 3 wire cleats have 1 1/2-inch wire centers. Weight per dozen, about 3 lbs.

4-E-3057	Two wire.	Per 100.....	\$2.75
4-E-3058	Three wire.	Per 100.....	2.85

New Code Electric Fixture Wire



Designed for wiring electric fixtures, lamps, brackets, chandeliers and short wiring circuits. Single solid copper conductor insulated with rubber compound over which is saturated cotton braid. Shipping weights per 100 feet as follows: No. 18, 3 1/4 lbs.; No. 16, 4 1/2 lbs.

Article Number	Size	100 Feet
4-E-3021	18	75c
4-E-3022	16	93c

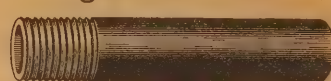
New Code Reinforced Portable Lamp Cord



Used for portable extension lights, lamps and electrically operated household equipment. Made to stand continuous hard wear. Made up of twisted lamp cord, over which is placed rubber compound and outside braid of mercerized cotton.

Article Number	Size	100 Feet
4-E-3029	18	\$3.60

Rigid Iron Conduit



Designed to give greatest safety. Initial cost is more than knob and tube wiring, but is recommended if you want highest grade everlasting work. Specified for bringing wires to house from main line regardless of interior wiring. New, clean stock coated with black enamel. Resists weather, acid and alkali. Constructed for easy bending without injury to flexible enamel. 10 feet lengths only, threaded two ends with coupling on one end.

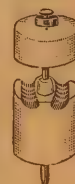
Article Number	Size	Ship. Wt. per 100 Ft.	Price Per 10 Feet Length
4-E-3039	1/2 in.	80	\$0.90
4-E-3040	3/4 in.	100	1.20
4-E-3041	1 in.	150	2.10



Conduit Straps

Article Number	For Pipe	Ship. Wt.	Per 100
4-E-3047	1/2 in.	1/2 oz.	40c
4-E-3048	3/4 in.	3/4 oz.	60c
4-E-3049	1 in.	1 oz.	70c

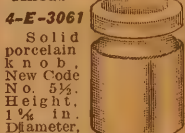
Assembled Split Knobs



Latest improved and assembled split knob consists of complete new code knob with nail ready to fasten in position. Simply insert wire and drive into place. Big time saver. Diameter, 1 1/4 inch; takes 10, 12 or 14 wire. Shipping wt., per 100, 10 lbs.

Per 100.....	\$2.50
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Round Porcelain Knobs

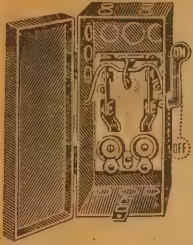


4-E-3061 Solid porcelain knob. New Code No. 5 1/2. Height, 1 1/4 in. Diameter, 1 1/4 in. 1/4 in. hole 1/4 in. groove. Shipping weight per 100, about 12 lbs.

Per 100.....	\$1.75
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LATEST IMPROVED APPARATUS

Outside Operated Entrance Switch



This switch is similar to our No. 4-E-3063 safety entrance switch, but is not made with the safety latch feature. Consists of a two pole, 125 volt, 30 ampere, porcelain base plug fuse, entrance switch. Size of steel box, 8 $\frac{1}{2}$ x4 $\frac{1}{2}$ x3 $\frac{3}{4}$ inches. Box is fitted with lever on

the outside. It is so constructed that you can secure privacy and protect against theft of fuse plugs by using a padlock. It is made with the knock outs for $\frac{1}{2}$ or $\frac{3}{4}$ inch conduit, loom or B. X. cable. Convenient holes for mounting it with screws. Finished in black enamel. Shipping weight, about 6 $\frac{1}{4}$ lbs.

4-E-4012. Price, each, complete.... **\$1.65**



Cannot be opened with current on.

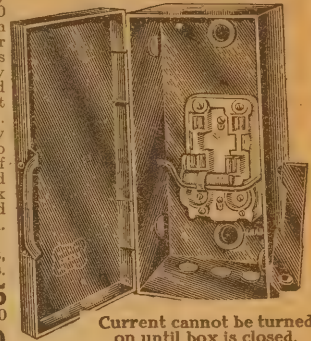
cable connectors and porcelain bushings for use with loom. Black enamel finish. For mountings with screws.

4-E-3063. Safety entrance switch with two-pole, 135 volt, 30 ampere plug fuse switch. Size of box, 10x5x3 $\frac{1}{2}$ inches. Weight, about 6 lbs.

Each..... **\$2.05**

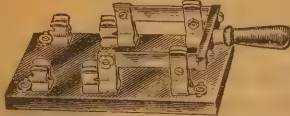
4-E-3064. Safety entrance switch with 3 pole, 125 volt, 30 ampere plug fuse switch. Size, 9 $\frac{1}{2}$ x7x3 $\frac{1}{2}$ inches. Weight, about 9 lbs. Each..... **\$3.00**

Safety Entrance Switch



Current cannot be turned on until box is closed

Slate Base Entrance Switches

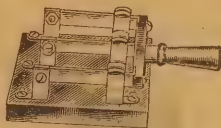


Used for main line cut-out switch where other wires enter houses or small plants. Two pole switch, size 3 $\frac{1}{2}$ x6 $\frac{1}{2}$ x1 $\frac{1}{2}$ inches. 3 pole switch, 5x6 $\frac{1}{2}$ x1 $\frac{1}{2}$ inches. Capacity, 250 volts, 30 amperes.

4-E-3065. Slate base switch, 2 pole for cartridge fuse. Each..... **\$2.45**

4-E-3065 1/2. 3 Pole Switch for cartridge fuses. Price, each.... **\$3.70**

Slate Base Cutout Switches



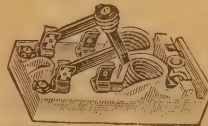
New Code switch with blades of fine copper. Capacity 250 volts, 30 amperes.

4-E-3066. Single pole switch. Size over all, 2x6x1 $\frac{1}{2}$ inches. Weight, 12 oz. Each..... **45c**

4-E-3067. Two pole switch. Size over all, 3 $\frac{1}{2}$ x4x1 $\frac{1}{2}$ inches. Weight, 1 lb. Each..... **56c**

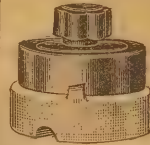
4-E-3068. Three pole switch. Size of base, 3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x1 $\frac{1}{2}$ inches. Weight 1 $\frac{1}{2}$ lbs. Each..... **\$1.18**

Panel Box Switch



4-E-3069. Made for use in switch box where 2 circuits are to be controlled with separate switch. Capacity 125 volt, 30 amperes. Weight 24 oz. Base size 3x6x1 $\frac{1}{8}$ in. Each..... **70c**

Turn-Button Snap Switches



4-E-3070. Single pole and 3-way switches; can be arranged to control light from two different points. 125 volt, 5 ampere, or 250 volt, 3 ampere. Weight each about 4 ounces. Single pole, non-indicating. Each..... **27c**

4-E-3071. 3-way. Each..... **87c**

125 volt, 10 ampere, or 250 volt, 5 ampere.

4-E-3072. Single pole, non-indicating. Each..... **29c**

4-E-3073. Three-way. Each **89c**

Two Wire Single Branch



4-E-3074. 2 wire single branch plug cut out, 125 volts, 30 amperes, base size, 3x3 $\frac{1}{2}$ x1 $\frac{1}{2}$ inches.

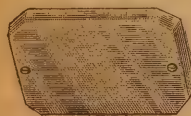
Weight, about 13 oz. Each..... **25c**

Conduit Box Couplings



4-E-3090. Made to be used with conduit box bodies, with which they complete fitting seam to a union or conduit. Weight, 3 oz. Each. **10c**

Covers for Deep Body Type



4-E-3093. Blank cover to be used when box is being used as pull or junction box only. Weight, 4 oz. Each. **10c**



4-E-3094. Hole cover; a face plate when used with 2 button push switch. Weight, 4 oz. Each..... **12c**



Plug Fuses

Made for use on current up to 125 volts. Select smallest size to pass enough current for line carrying greatest load. Carefully selected fuses mean least possible trouble.

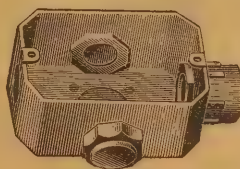
Carried in stock in the following sizes: 3-6-10-12-15-20-25 and 30. Price, each..... **6c**

Cartridge Fuses

Base Cartridge fuses. Size 2x9-16 in. Select size that will pass smallest amount of current for line with greatest load. Weight, each, 1 ounce.

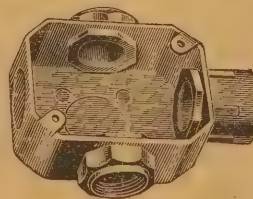
4-E-3078.....	3 amp.	
4-E-3079.....	6 amp.	
4-E-3080.....	10 amp.	Each
4-E-3081.....	12 amp.	11c
4-E-3082.....	15 amp.	
4-E-3083.....	20 amp.	
4-E-3084.....	25 amp.	
4-E-3085.....	30 amp.	
4-E-3086.....	40 amp.	Each
4-E-3087.....	50 amp.	20c
4-E-3088.....	60 amp.	

Conduit Box Bodies



Deep Type

4-E-3092 1/2. Designed to receive all standard flush switches, receptacles, etc., which are mounted in this body same as in any ordinary switch box. 5 knock outs on side and bottom. Size, 3 $\frac{1}{2}$ x2 $\frac{1}{4}$ x1 $\frac{1}{2}$ ins. Supplied with screws for attaching covers. Weight, 8 oz. Each..... **30c**



Shallow Type

4-E-3092. Made for all general classes of work. Used for junction types and drop cord work. Takes all types of wiring devices (flush type, receptacle switches, etc.). 5 knock-outs in sides and bottom. Size, 2 $\frac{1}{2}$ x3 $\frac{1}{4}$ x1 $\frac{1}{2}$ ins. Screws for attaching covers furnished. Weight, 8 oz. Each..... **25c**

Conduit Box Couplings



4-E-3091. To be used with $\frac{3}{4}$ inch rigid iron conduit pipe and can be connected to conduit box body. Weight, 3 oz. Each..... **15c**

Covers for Shallow Type Body

4-E-3095. Raised cover with $\frac{1}{4}$ inch knock out. Used where junction box only is wanted or for conduit extension. Weight 3 ounces. Each..... **10c**

4-E-3096. Flat cover, with $\frac{3}{4}$ inch push opening. Used for drop cords. Smooth edge preventing injury to cord. Each..... **10c**

Every Needed Item for House Wiring



Shallow Ceiling Outlet Box

4-E-3097. Made without lugs. Used for fixture with bracket outlet. Knock outs for 1/2-inch conduit. 4 inch diameter, 1 1/2 inch deep. Weight, 7 ounces. Each. **10c**
4-E-3098. As above except with 3/8-inch knock outs for metallic conduits. Each. **10c**



Square Outlet Box

Heavy steel outlet box with knock outs on side and bottom for 1/2-inch gas pipe. Can be used for junction box or switch box. 4 inches square, 1 3/8 inches deep. Weight, 7 ounces. Each. **17c**

Square Outlet Box Covers

4-E-3099. Open bracket cover. Has 3/4-inch crown. Each. **12c**
4-E-4000. Closed raised cover, 3/4-inch insulating bushing. Each. **9c**
4-E-4001. Flat closed cover. Each. **8c**
4-E-4002. Shallow cover, 3/4 inch, for single standard push button switch or wall receptacle. Each. **15c**
4-E-4003. Shallow cover, 3/4 inch, for two standard push button switches or wall receptacles. Each. **18c**



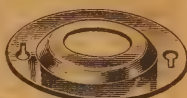
Raised Center Closed Cover

Weight, 1 ounce.
4-E-4004. For 4-inch box. Each. **10c**
4-E-4005. For 3 1/4-inch box. Each. **9c**



Raised Closed Cover

Weight, 4 ounces.
4-E-4006. For 4-inch box. Each. **11c**
4-E-4007. For 3 1/4-inch box. Each. **10c**



Raised Open Cover

Weight, 4 ounces.
4-E-4008. For 4-inch box. Each. **12c**
4-E-4009. For 3 1/4-inch box. Each. **9c**



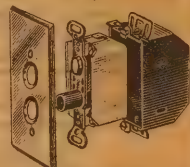
Push Button Flush Switch

Splendid push button flush switch. Standard shallow type. 1 1/2 inch deep, 1 1/8 inch wide. 1 Black, 1 Pearl center button. For 125 volts, 10 ampere current; 250 volt, 5 ampere current. Weight, 6 ounces.

4-E-4010. Single pole switch. **30c**
4-E-4011. Double pole switch. Each. **40c**
4-E-4013. Three way switch. Each. **50c**
4-E-4014. Four way switch. **\$1.50**

Wall Box Switch and Plate

4-E-4015. Complete box switch and plate combination, including single pole switch, single gang push button, flush switch plate and wall box for loom or knob and tube wiring. This outfit is the one which is used for house wiring, and we feature it at a reduced price for convenience in buying economy. It is assembled from our regular stock of high grade electric wiring apparatus. These items are necessary in the installation of a flush switch or when first class, dependable installation is wanted.



Price of wall box switch and plate as illustrated, complete **70c**

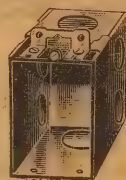
Wall Box for Conduit or Armored Cable

4-E-4017. Single gang box. Will receive any standard push switch. Knock out holes for 1/2-in. conduit or armored cable. By removing one side of box and joining two or more boxes together any number of gangs wanted can be made. Length, 3 inches; width, 2 inches; depth, 3 3/4 inches. Weight, 14 ounces. Each. **21c**



Sectional Loom Switch Box

4-E-4016. Any number of gangs can be made up instantly with this box. Perfect alignment regardless of size box is to be built. Can be used with any standard push switch. 3/4 inch knock outs for 1/4-inch loom. 2 1/2 inches deep. Weight, 11 ounces. Each. **20c**



Wall Box for Loom or Knob and Tube Wiring

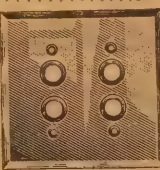
4-E-4018. Designed to be used with flexible loom or knob and tube work. Depth, 2 1/4 inches. Diameter of outlet holes, 3/4 inch to take 1/4-inch loom. Will receive any standard push switch. Weight, 11 ounces.



Face Plate for Single Flush Push Button Switch

4-E-4022. Four attractive finishes are offered for your choice in these heavy solid brass face plates. To cover single gang push button switch. Fits flush against the wall. State finish wanted. Weight, 2 ounces.

Number	Finish	Each
4-E-4023	Brushed Satin Brass	15c
4-E-4025	White Enamel	27c
4-E-4026	Oxidized Copper	27c
4-E-4027	Polished Nickel	27c



Face Plate for Two-Gang Flush Push Button Switch

Designed for use with two push button flush switch plates together in a two-gang box. Made of heavy solid brass in four attractive finishes. Weight, 2 ounces.

Number	Finish	Each
4-E-4028	Brushed Satin Brass	26c
4-E-4030	White Enamel	53c
4-E-4031	Oxidized Copper	53c
4-E-4032	Polished Nickel	53c

Face Plate for 3-Gang Flush Push Button Switch

Made of solid brass. To be used where three flush switches are placed together within a three-gang box. State finish wanted. Weight, 6 ounces.

Number	Finish	Each
4-E-4033	Brushed Satin Brass	39c
4-E-4035	Oxidized Copper	80c
4-E-4036	Polished Nickel	80c

Flush Outlet for Edison Base Screw Plug

4-E-4043. Made to receive Edison screw base attachment plug. Install for connections to household appliances. Fits flush to wall or base board. Hinged brass door covers socket. Complete with flush plate. Weight, 10 ounces.



Finish	Each
Brushed Satin Brass	50c
Oxidized Copper	
Polished Nickel	

Duplex Flush Outlet

Made to receive the prongs of any standard attachment plug cap. Two connections can be made to this outlet. Fits in regular metal wall box. Complete with face plate. Weight, 12 ounces.



Number	Finish	Each
4-E-4037	Brushed Satin Brass	80c
4-E-4038	Oxidized Copper	
4-E-4039	Polished Nickel	

Standard Flush Outlet

Used for attaching electric household appliances. Eliminates trouble of screwing plug into socket. Prongs of any standard attachment plug can be inserted in slots. Complete with faceplate. Weight, 12 ounces.



Number	Finish	Each
4-E-4040	Brushed Satin Brass	60c
4-E-4041	Oxidized Copper	
4-E-4042	Polished Nickel	



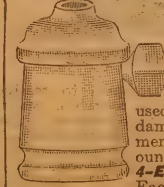
Brass Shell Key Socket

National electrical standard socket with key to turn current off and on. Fibre lights, 1/2 inch cap. Will receive any Edison base lamp. Weight, each 3 ounces.
4-E-4047. Brushed Brass finish. **30c**
4-E-4048. Oxidized Copper finish or Polished Nickel. **57c**



Brass Shell Pull Socket

National Electric Code Standard Socket with 8-inch chain to control current. Brass shell fibre line, 1/2-inch cap. Weight, 3 ounces.
4-E-4049. Brush Satin Brass finish. Each. **45c**
4-E-4050. Oxidized Copper finish. **95c**
4-E-4051. Polished Nickel finish. **95c**



Porcelain Socket with Pendant Cap

Made to be used on drop cords in damp places or basements. Weight, 6 ounces.
4-E-4052. Each. **36c**
4-E-4053. As above, but keyless. **32c**



Current Tap

A handy device made to accommodate light bulb and supply a connection for electric household device. Porcelain body and cap. Screws into any ordinary light socket. Either connection can be used alone or both can be used at same time.
4-E-4054. Price, each. **45c**

Priced Very Low for Big Economy



Twin Light Plug
75c

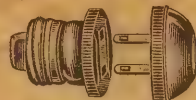
4-E-4055. Made in one piece of special material which is not affected by moisture or heat and will not break if accidentally dropped. A small compact neat plug made to fit all Edison base sockets or receptacles. Price, each **75c**



Plug Caps
13c

4-E-4056. Made of hard insulated composition with knife braided contact points to fit all standard receptacles and plugs. 10 amperes, 250 volts. Wires easily attached. Hole large enough to take in average electric fixture wire. Price, each **13c**

Separable Attachment Plug



4-E-4057. Made with hard composition insulated cap and fitted with base knife braided contacts. Edison screw base. Will fit any standard receptacle and plug. Will carry 660 Watts and 250 volts. Price, each **15c**

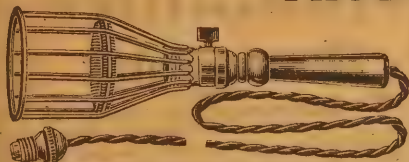


Insulating Tape and Splicing Compound

Used on all electric jobs for covering wires where insulation has been removed, for wrapping splices. All soldered ends should be wrapped with a rubber tape and covered with connector tape.

4-E-4058. Black fixture tape, 1/2 inch wide. 1/2 lb. package. **30c**
4-E-4059. Rubber Splicing tape, 1/2 inch wide. 1/2 lb. package. **35c**

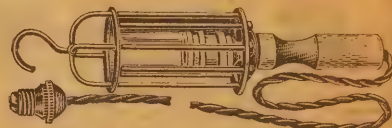
PROTECTED EXTENSION LIGHTS



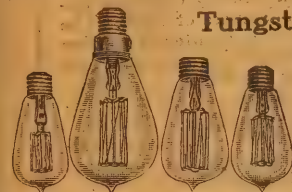
\$2³⁰

4-E-4060. A carefully assembled extension light for use about the home and other buildings. Made with strong, protected 16 candle power cord socket. Lamp not included. Weight, 2 lbs. Each. **\$2.30**

\$3³⁵



4-E-4061. Improved extension light with strong guard protector and reflecting shade to centralize the light where you want it. Made with 20 feet of cable. Lamp not included. Weight, 6 lbs. Each. **\$3.35**



Tungsten Lamps

These lamps consume one-third the current used by ordinary carbon lamps of equal power. On account of Tungsten Metal being very easily broken by rough handling, we cannot guarantee safe delivery or replace Tungsten lamps shipped by mail.

100 to 130 Volts.

Clear Glass Tungsten Lamps

4-E-8005. 60-
Watt, Each. **35c**
4-E-8006. 100-
Watt, Each. **90c**

4-E-8003. 40-
Watt, Each. **30c**
4-E-8004. 25-
Watt, Each. **30c**

High or Low Electric Light Regulator

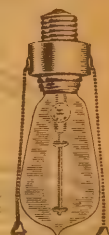
20 Light Changes—Dim to Bright

This perfected electric light regulator works equally well upon either direct or alternating current. It gives you exactly the strength of light you wish at all times—twenty changes of light—dim or bright—easily regulated by pulling either the dark or light chain. Made with a highly finished brass shell with socket construction to attach to a shade holder.

Just the thing for hospitals, sick rooms, nurseries, bathrooms, hallways, bedrooms or where a low light is necessary.

Any ordinary electric globe can be used provided it is not more than 40 watts capacity. Furnished for 110, 30 or 32 volt. Specify voltage when ordering.

4-E-8904. Electric Light Regulator, complete without electric lamp, Each. **\$1.10**



You simply pull the light or dark chain to subdue or brighten the light

Skeleton Bells



Used for fire and burglar alarms, or for other purposes that require a strong, loud ringing bell, such as mills, shops, and factories. The contact points are platinum, thus insuring a uniform penetrating sound.

4-E-10503. 4-in. Gong, Each. **\$4.95**
4-E-10505. 5-in. Gong, Each. **\$5.85**
4-E-10507. 6-in. Gong, Each. **\$6.65**
4-E-10509. 8-in. Gong, Each. **\$10.75**
4-E-10511. 10-in. Gong, Each. **\$15.95**

Iron Box Bells



Used for door and call bells. Box is made of stamped sheet steel, nickel plated cast gong. German silver contacts. Can be operated and rings clearly with one cell of battery at a distance of 150 feet.
4-E-10501. 3-in. iron box bell. **65c**
4-in. iron box bell. **75c**
Used where a louder tone is required.

Iron Box Buzzer



Used in place of bells for call purposes. Makes a loud buzzing sound.

We advise the use of a buzzer for the back door, as it is easy to distinguish the sound of buzzer from the bell which can be used for front door.

4-E-10513. Iron box buzzer, Japanned finish. **70c**

Bell Transformer



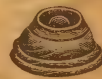
4-E-20055. This transformer connects to house lighting circuit. Reduces current, low voltage, for operating door bells, buzzers, annunciators, etc., doing away with dry cells. Stock transformers will operate on 100 to 130 volts, 60 to 133 cycle. "Junior" Bell Ringer, 2 1/2 x 2 x 6 inches, weight, 2 1/2 pounds. **\$1.25**

Columbia Dry Batteries



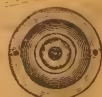
Designed especially for ignition work. Low internal resistance. Intended for the severest work under which an open circuit dry battery will qualify. Suitable for automobiles, motor boats, gasoline engines, small incandescent lights, small motors. Will test from 25 to 30 amperes. Weight, 2 lbs. **4-E-10521.** 8 1/2 x 6 1/2 inches. Each. **50c**

Push Buttons



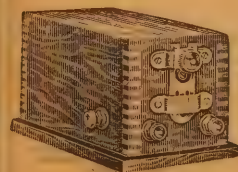
Wood

4-E-10527. Wood push buttons. Oak, ash, cherry or walnut. German silver springs, porcelain button. **14c**



Metal

4-E-10529. Solid cap stamped brass buttons. **15c**



Jump Spark Coils

For Stationary and Marine Engines

4-E-20050. Designed to answer the most rigid requirements of marine and stationary gas engines, regardless of horse power.

A hot, flaming arc is produced under compression with minimum current consumption, increasing the life of the battery.

Coils are equipped with a vibrator. It is impossible to adjust the vibrator to consume an excessive amount of current. Arcing at contact points is practically eliminated. Large points are used, made of the very best grade of tungsten.

Assembled in a dovetailed, highly polished seasoned oak case.
Single cylinder. **\$2.80** Double Cylinder. **\$5.25**

Make and Break Spark Coils

Moisture Proof

For stationary and Marine make and break engines.
4-E-20051. Coils are assembled in a substantial black enameled steel case, 2 1/4 inches square by 6 inches high, occupying the same space in the battery box as an ordinary dry cell. They are very economical on battery power and generate at all times a hot, intense spark.

These coils are immersed in a special insulating compound, rendering them absolutely impervious to moisture.

Any of our coils can be furnished with a single or double throw switch. A combined coil and switch is a very late improvement in Ignition Equipment. It simplifies the wiring circuit and eliminates the expense of one primary wire, battery switch and the mounting of same on the battery box.

No. 10. Make and break Coil without switch. **\$0.95**
No. 10. Make and break Coil with single throw switch. **1.10**
No. 40. Make and break Coil with double throw switch. **1.20**



HARRIS House Paint



\$1⁹⁵

Per Gallon

Guarantee House Paint

We Guarantee every gallon of "Harris" house paint to be equal in every respect to the highest priced paints on the market. We guarantee that it will come up to your highest expectations in spreading and wearing qualities, appearance and fastness of color. The purpose of this guarantee is to give you an assurance of satisfaction, and if you are not pleased in every way, or if for any reason you are not satisfied with your purchase of "Harris" house paint, we will replace every gallon you have purchased free of charge.

HARRIS BROTHERS CO.



THE QUALITY of the paint you use should be more carefully considered than probably any other material you buy. The purchase of good paint—the kind that is made from a scientific formula of finest ingredients, is real genuine economy. "Harris" house paint is good paint. Pure linseed oil, lead and zinc are used as the main body.

32 Non-fading Colors to Choose from

White
Olive
Orange
Drab

Venetian
Fawn
Maroon
Pea Green
Azure Blue
Ivory Yellow
Lilac
Canary
Blue Green
Cream
Brown
Straw
Bronze

Blue
Light Grey
Oak
Peacock Blue
Tan
Russet
Light Yellow
Pink
Slate
Terra Cotta
Grey
Buff
Black

Chocolate
Dark Grey



You Can Pay More But You
Won't Get Better Paint

Order No. 9-E-700

1 quart cans. Each.....	\$0.70	5 gallon kit. Per gallon.....	\$2.08
1 gallon cans. Each.....	2.10	25 gallon (½ bbl.) Per gal.....	2.00
		50 gallon bbls. Per gallon.....	\$1.95

5 Gallon Kit of Harris House Paint and One High Grade 4-inch Brush (Set in Rubber)

\$11⁰⁰

The brush furnished is of excellent quality, 4 inches wide with pure black bristles, 3¾ inches long, set in vulcanized rubber. Regular \$1.75 value.

No. 9-E-701—5 Gallon Kit of Harris House Paint and one High Grade 4-inch Brush.....

\$11.00

HARRIS Barn Paint

Guarantee Barn Paint

The Guarantee every gallon of "Harris" barn paint to be equal in every respect to the highest priced barn paints on the market. We guarantee that it will come up to your highest expectations in spreading and wearing qualities, appearance and fastness of color. The purpose of this guarantee is to give you an assurance of satisfaction, and if you are not pleased in every way, or if for any reason you are not satisfied with your purchase of "Harris" barn paint, we will replace every gallon you have purchased free of charge.

HARRIS BROTHERS CO.

\$1⁴⁰
Per Gallon

HARRIS BARN PAINT is made of the same splendid process as Harris House Paint. Only the best ingredients are used in its formula. As a covering for your barns and for other similar outside work, it has no superior. Those who have used Harris paint before know that it can be depended upon to complete a job that will wear perfectly under most severe conditions.

6 Popular Colors to Choose from

REGULAR COLORS

Red Yellow Maroon

SPECIAL COLORS

*Green *Slate *Lead

*The colors indicated as "special colors" above require more expensive color ingredients than the regular colors, and consequently we are forced to advance these prices slightly. Inferior substitutes could be used which would sacrifice quality. We must naturally supply best paint to you under our binding guarantee.

FOR REGULAR COLORS

Order No. 9-E-702

1 gal. can. Each.....	\$1.50
5 gal. kits. Per gal.....	1.48
25 gal. (½ bbls.). Per gal.....	1.45
50 gal. bbls. Per gal.....	1.40

FOR SPECIAL COLORS

Order No. 9-E-703

1 gal. can. Per gal.....	\$1.75
5 gal. kits. Per gal.....	1.73
25 gal. (½ bbls.). Per gal.....	1.70
50 gal. bbls. Per gal.....	1.65



Contains All Desired Qualities—
Endurance, Appearance, Protection

\$8⁰⁰ Buys A 5-Gallon Kit of Harris Barn Paint
and A High Grade 4-inch Brush (Set in Rubber)

The high grade 4-inch Brush set in vulcanized rubber, 4 inches wide, with pure black bristles 3¾ inches long, regular \$1.75 kind.

9-E-704—5 Gallon Kit of Harris Barn Paint and a High Grade 4-inch Brush **\$8.00**

If any of the special colors are wanted, add \$1.25.

Some Special Savings in Painter's Needs



and sun proof. It is a heavy rubber-like combination of durable oils, reinforced with asbestos fibre. Apply in a heavy coat, using about one and one-half gallons to the hundred square feet.

9-E-150.

1 gal. can—shipping wt., 15 lbs.
5 gal. can—shipping wt., 75 lbs.
25 gal. $\frac{1}{2}$ bbl.—shipping wt., 225 lbs.
50 gal. bbl.—shipping wt., 500 lbs.

60c

Per Gallon

A new method of preserving the life of metal, paper and composition roofing. A liquid compound that will quickly and permanently seal all leaks, cracks and holes in any kind of a roof, making a perfectly water tight covering. This covering will add years of service to your roof. It seals all small holes, caused by rust and deterioration. Absolutely water proof.

Per Gal.

90c
75c
65c
60c

5 $\frac{1}{2}$ c

Per Pound

Makes a one piece, no seam roof. Guaranteed to stop roof leaks no matter how old the roof. One application of asbestos fibre roof cement will give years of additional service. It stops leaks in tin, wood, felt or paper roofs. Permanently seals leaks in basement walls, leaky gutters and spouting. Apply with a trowel, spreading cement about $\frac{1}{4}$ inch thick.

9-E-151.

5 lb. can.
10 lb. can.
25 lb. pail.
100 lb. keg.
300 lb. half barrel.
550 lb. barrel.

Per Lb.

13 c
10 $\frac{1}{2}$ c
8 $\frac{1}{2}$ c
7 $\frac{1}{2}$ c
5 $\frac{1}{2}$ c



Harris Auto Enamel



\$1³⁵

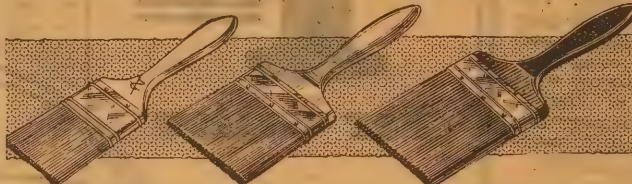
Per Quart

Harris Auto Enamel is particularly made for refinishing automobiles. It is simple to use, and requires no expert knowledge. Applied with a fine brush. You can obtain a smooth surface. No brush marks will show. Complete directions sent with each can. Dries quickly. Supplied in ten colors: Black, brewster green, deep cream, dark blue, battleship grey, medium green, yellow, tan, red and white.

9-E-585.

1 quart can. \$1.35
1 pint can.72
 $\frac{1}{2}$ pint can.43

Bargains in Good Brushes



RUBBERSET HOME BRUSH

For varnishing, enameling, staining, or painting. A most durable brush. Selected Chinese bristles, solidly imbedded in hard vulcanized rubber.

9-E-1301

2 inches wide. 40c

4 INCH WALL BRUSH

This brush is specially manufactured for us from pure black bristles, $3\frac{1}{2}$ inches long, vulcanized in rubber. A high grade brush that is guaranteed to give satisfactory service.

9-E-58

..... \$1.25

SPECIAL WALL BRUSH

Made of all pure black Chinese bristles, 4 ins. long, 4 ins. wide, vulcanized in rubber. Suitable for painters or others who use a brush continuously. Packed in individual boxes.

9-E-1339

..... \$1.75

Flat Wall Paint

70c

Per Quart



For interior walls. A high grade oil paint which dries to a soft flat tone, possessing an elastic finish. A sanitary paint, which will not rub off; may be washed with soap and water. Will not spot, turn color or fade. It is prepared, ready for use. Eleven colors: White, tan, light yellow, pea green, gray, yellow, pink, azure blue, deep cream, maroon.

9-E-905.

5 gallon cans. Per gal. \$2.15
1 gallon cans. Per gal. 2.20
1 quart can. Per can.70

Harris High Gloss Enamel



For fine interior enamel work. These enamels are especially prepared to meet "easy to apply" requirements of the novice or housewife. Particularly adapted for walls and ceilings in bed rooms, bath rooms, and kitchens. Made in twelve beautiful shades: pale blue, deep cream, vermillion, sea green, rose pink, orange, royal blue, silver gray, green, carmine and black.

9-E-921.

1 gallon cans. \$3.00
1 quart cans.80
 $\frac{1}{2}$ pint can.25

White Washing and Painting Machine

SPECIAL SALE PRICE \$17⁵⁰

The most practical and economical machine manufactured for whitewashing and painting. Can be used with either whitewash or cold water paints, or for spraying trees, 25 ft. high or more. Body is made of 24 gauge galvanized steel, fitted with brass cylinder valve pump, which produces a high pressure. Every machine is equipped with an agitator which works at every stroke of the pump, and keeps the solution thoroughly mixed. Every machine is equipped with solution strainer, and is guaranteed to give entire satisfaction. Ten-gallon capacity, complete with 10 ft. of $\frac{1}{2}$ -inch high grade hose, 1 nozzle and 8 foot extension rod.

9-E-321. \$17.50



High Grade Varnishes



EXTRA COACH VARNISH

Suitable for the best interior work. Varnish of medium color and good body. The most durable varnish for this grade of work. Can be rubbed or left in the gloss. Dries dust free in three to four hours.

9-E-1007.

1 pint cans. \$.45
1 quart cans.75
1 gallon cans. 2.25
5 gallon cans. 10.00



WEARING FLOOR VARNISH

The highest grade floor varnish. Suitable for use on natural wood or painted floors. An elastic varnish that will not scratch, turn white or show heel marks. A most economical and durable floor varnish.

9-E-1013.

1 pint cans. \$.50
1 quart cans.80
1 gallon cans. 2.50
5 gallon cans. 11.00



FURNITURE VARNISH

A good varnish at an unusually low price. Has a fine gloss and will rub nicely. Light in color and dries dust free in eight hours. Get the benefit of these big sale savings.

9-E-1001.

1 pint cans. \$.45
1 quart cans.70
1 gallon cans. 2.25
5 gallon cans. 10.00

Carefully Chosen for This Book!



gallon will cover two hundred and fifty feet smooth surface. Supplied in four colors, maroon, green, brown and black.

9-E-913—	Black	Colors
1 gallon can.....	\$0.90	\$1.23
5 gallon can.....	.88	1.20
25 gallon half barrels.....	.85	1.12
50 gallon barrels.....	.80	

80c Black Per Gallon

An ideal roofing coating for wood, metal or composition roofs. Tough and elastic. The colors produce a beautiful effect, harmonizing with the colors used in your house paint. Made of the best grade of Trinidad asphalt, especially treated and combined with pure boiled linseed oil. When dry it forms a tough, elastic surface. Is not affected by expansion or contraction; acids, gases or alkali. One

\$1.35 Per Gallon

The best wood preservative known. Harris Creosote Shingle Stain is scientifically prepared. The colors are extremely durable and attractive and are guaranteed not to fade. This shingle stain is a particularly high grade material, which we guarantee to satisfy you entirely. Can be applied with a brush after shingles are laid, or shingles can be dipped before laying. When applied with a brush one gallon will cover about 150 square feet of surface one coat. For dipping it requires 2 1/2 to 3 gallons per thousand shingles. Supplied in six colors, brown, medium green, moss green, weathered oak, venetian red and light green.



9-E-901—	1 gallon cans, per gallon.....	\$1.45
9-E-902—	5 gallon cans, per gallon.....	1.42
9-E-903—	25 gallon half barrels, per gallon.....	1.38
9-E-904—	50 gallon half barrels, per gallon.....	1.35

White Lead



Our white lead is non-poisonous, is carefully ground and scientifically mixed. Ground in pure oil. Our "Inland Pure" lead is recommended and will give extra good service. Our "Premier" lead is of guaranteed quality.

9-E-1106.

"Premier" White Lead

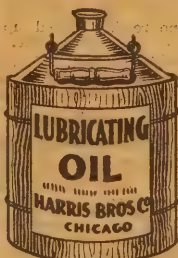
100 lb. kits, per lb.....	11c
50 lb. kits, per lb.....	11 1/4c
25 lb. kits, per lb.....	11 1/2c
12 1/2 lb. kits, per lb.....	12c

9-E-1107.

"Inland Pure"

100 lb. kits, per lb.....	16c
50 lb. kits, per lb.....	16 1/2c
25 lb. kits, per lb.....	17c
12 1/2 lb. kits, per lb.....	18c

Lubricating Oils and Greases



9-E-601. High grade Tractor Engine Oil, tested and approved by leading Tractor manufacturers and highly recommended as a splendid lubricant.

Per gallon.....	\$1.00
5 gallon cans, per gallon.....	.95
25 gallon barrels, per gallon.....	.85
50 gallon barrels, per gallon.....	.75

Separator Oil Recommended for Cream Separators.

A light colored oil, recommended for hand and power machines.

9-E-10819—	Per Gal.
1 gal. can.....	\$1.25
5 gal. cans.....	1.20
25 gal. half bbls.....	1.10
50 gal. bbls.....	1.00

Axle Grease

Highest quality refined grease. Lessens friction and lightens draft. Guaranteed to give satisfaction.

9-E-10847—

10 lb. pail.....	\$1.05
15 lb. pail.....	1.40
25 lb. pail.....	2.15



Red Engine Oil

Highest grade lubricating oil. 500 fire test. 200 viscosity test.

9-E-10815—	Per Gal.
1 gal. can.....	85c
5 gal. cans.....	80c
25 gal. bbls.....	65c
50 gal. bbls.....	60c

Cup Grease

High grade transmission grease. Will not gum or harden. Prevents rust and reduces friction. A superior lubrication for general transmission.

9-E-10843—

5 lb. pails.....	\$0.90
10 lb. pails.....	1.70

Wall Paper Cleaner

For calcimine, wall paper, window shades and all interior decoration. Absorbs all smoke, dust and dirt. Will not stain or fade.



9-E-10855. Price per can..... 9c

Paint Cleaner

1-lb. Package 9c

An ideal preparation for washing paint, walls, woodwork or any surfaces that can not be cleaned with soap and water. Guaranteed not to damage the furniture or woodwork. Put up in 1 lb. packages. Price, each. 9c



Priced for Real Economy

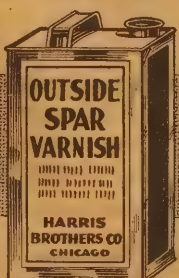


INTERIOR SPAR VARNISH

Adapted for interior finishes for highest grade work. Light in color. Made from pure hard gum. Can be left in the gloss or rubbed. Dries hard for rubbing in 48 hours.

9-E-1017—

1 pint can... \$	0.60
1 quart can... \$	.90
1 gallon can... \$	3.00
5 gallon can... \$	14.00



OUTSIDE SPAR VARNISH

Recommended for finishing woodwork in bath rooms or any woodwork that may have hard usage or come in contact with water.

9-E-1019—

1 pint can... \$	0.65
1 quart can... \$	1.00
1 gallon can... \$	3.25
5 gallon can... \$	15.00



LINOLEUM VARNISH

Applied over linoleum it gives a hard, smooth, elastic finish that will bend with the linoleum. Will not crack. Not affected by hot or cold water. Dries to walk on over night.

9-E-933—

1 pint can... \$	0.50
1 quart can... \$	.80
1 gallon can... \$	2.50
5 gallon can... \$	11.00

Harris High Gloss Lacquer

Recommended for finishing furniture and woodwork. This lacquer is especially prepared, so that highest results can be obtained by an inexperienced person. Fourteen shades: Light oak, cherry, gloss white, flat black, rosewood, walnut, dark oak, moss green, gloss black, mahogany, royal red, clear, flat white and ground color.

9-E-1101—

1 gallon cans.....	\$2.10
1 quart cans.....	.65
1/2 pint cans.....	.23



Varnish Stain

Recommended for use over a surface already varnished or painted, such as old furniture, varnished or painted woodwork. Harris Varnish Stain dries hard with a high luster and is easily applied with a brush. It is made in the following colors: Cherry, Mahogany, Rosewood, Dark Oak, Light Oak, Walnut, Antique Oak.



varnish brush. It is made in the following colors: Cherry, Mahogany, Rosewood, Dark Oak, Light Oak, Walnut, Antique Oak.

9-E-171—	Per half pint can... 20c
Per 1 pint can.....	\$0.30
Per 1 quart can.....	.52
Per 1/2 gal. can.....	.96
Per gal. can.....	1.75

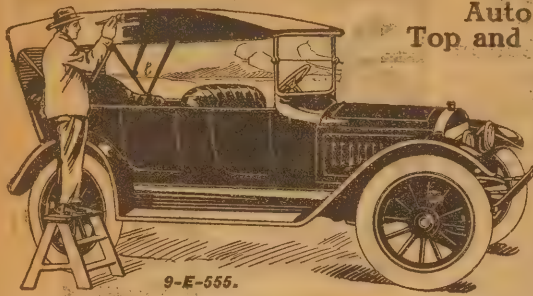


OIL Stain

A Perfect Imitation of Natural Wood. Used for staining interior woodwork and other work not finished. Dries with a flat finish. One or two coats of varnish will produce a fine glossy surface. It is easily applied with a varnish brush. Made in the following shades: Cherry, Dark Oak, Mahogany, Light Oak, Rosewood, Walnut, Antique Oak.

Prices on above shades:	
9-E-173. Per half pint can... 20c	
Per 1 pint can.....	\$0.30
Per 1 quart can.....	.52
Per 1/2 gal. can.....	.95
Per gal. can.....	1.75

Ladders and Paint Accessories!



9-E-555.

Auto Enamel Top and Seat Dressing

Harris Auto Enamel and Auto Top and Seat Dressing have been prepared to renew the appearance of your car. They can be quickly and easily applied, requiring no expert knowledge. With a little of your time and the use of these excellent varnishes, you can make your automobile look like new.

Top and Seat Dressing especially prepared for leather, rubber or mohair tops, and seats and curtains. Fills cracks, covers stains, restores original finish and preserves the life of the fabric.

1 pint cans (sufficient for Ford car) ... \$0.50
 1/2 pint cans. ... 30
 1 gallon cans. ... \$3.00
 1 quart cans (sufficient for touring car) ... 80

Colors in Oil



9-E-817. The strongest, most durable unfading colors obtainable. For use in tinting or may be used as it is furnished with the addition of proper thinners. Put up in 1 and 5 lb. cans.

Colors: 1 lb. can.
 Drop Black. ... \$0.30
 Ivory Black. ... 30
 Coach Black. ... 30
 Lamp Black. ... 1
 Prussian Blue. ... 45
 Ultramarine Blue. ... 45
 Cobalt Blue. ... 45
 Raw Umber. ... 45
 Burnt Umber. ... 45

Raw Sienna. ... 45
 Burnt Sienna. ... 45
 Vandyke Brown. ... 45
 Chrome Green. ... 45
 Blind Green. ... 45
 Scarlet Vermilion. ... 45
 Tuscan Red. ... 45
 English Venetian Red. ... 45
 Chrome Yellow (Light). ... 45
 Chrome Yellow (Medium). ... 45
 Chrome Yellow (Orange). ... 45
 Yellow Ochre. ... 45
 English Rose Pink. ... 45
 English Rose Lake. ... 45
 Light Oak Graining. ... 45
 Dark Oak Graining. ... 45
 Antique Oak Graining. ... 45
 Walnut Graining. ... 45
 Cherry Graining. ... 45
 Mahogany Graining. ... 45

Wood Filler



9-E-1049.

For filling or first coating any kind of close grained wood. Thoroughly seals up wood pores, and prevents absorption of moisture. This wood filler is transparent, does not need to be rubbed. Recommended for wood work where one or two coats of varnish are to be applied.

1 qt. cans each. ... \$0.60
 1 gal. cans, per gal. ... 1.80

Pure Putty

Specially adapted for Painters' and Furniture Manufacturers' use. Guaranteed strictly pure. Will not crumble or crack.

9-E-1107.

Price, 20 lb. cans. ... \$1.00
 Price, 10 lb. cans.55
 Price, 4 lb. cans.42
 Price, 1 lb. can.12



STEEL WOOL

9-E-362. Size 3 Steel Wool used in place of No. 1 or 1 1/2 sand paper. This brand of steel wool enables the painter or decorator to turn out a smooth, glossy piece of work.

Price Per 1 lb. package. ... 40c

9-E-353. Steel Wool for household use. The most efficient and economical time saver of all household cleansers. Packed in convenient cartons containing 2 oz. No. 0—Very fine, recommended for aluminum ware. Price per package. ... 9c

No. 3. Recommended for pots and pans and floors. Price, per package. ... 9c

Flake Glue



9-E-231. First Grade Flake Glue. Can be used on both soft and hard woods or for making printers' rollers, emery wheels, white mouldings or any other purpose where great strength and flexibility are required.

Price, per pound. ... 30c
 Price, 100-pound drums, per pound. ... 28c
 Price, 200-pound drums, per pound. ... 26c

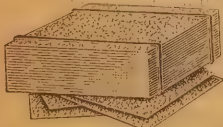
9-E-333. XX Flake Carpenters' Glue. Specially adapted for cabinet makers, carpenters, chipping glass and general repairing.

Price, per pound. ... 24c
 Price, 100-pound drums, per pound. ... 22c
 Price, 200-pound drums, per pound. ... 20c

9-E-335. XXX Kalsomine Glue. A thin cut pure sizing glue, used largely by kalsominers, also by cabinet makers for high-grade joining.

Price, per pound. ... 18c
 Price, 100-pound drums, per pound. ... 16c

Sand Paper



9-E-349. Best quality sand paper. The sand is sharp flint and applied to paper by special process.

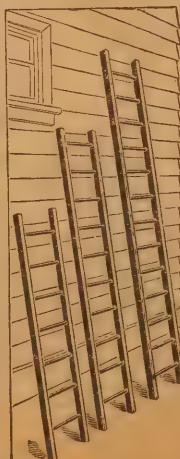
The No. 00 is the finest and No. 3 is the coarsest. Put up 24 sheets to the quire, one

number only. Assorted quires take the sheet price. Numbers. ... 00 0 1/2 1 1 1/2 2 3
 Price, 24 sheets. ... 30c 31c 32c 35c 40c 46c 58c
 6 sheets for. ... 10c 10c 10c 10c 12c 13c 15c

XXX QUALITY EMERY CLOTH

9-E-351. Made on heavy twilled cloth back and covered with the best quality emery.

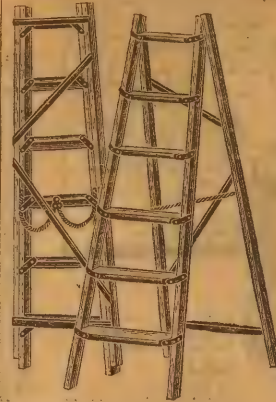
Numbers. ... 00 0 1/2 1 1 1/2 2
 24 sheets. ... \$1.60 \$1.62 \$1.65 \$1.67 \$1.80 \$2.00
 3 sheets.45 .45 .45 .45 .50 .55



Farm or Long Ladders

9-E-1223. Sides are made of clear pine. Hickory rungs fastened in the same manner as our extension ladders. A strong, rigid ladder, suitable for all general purposes.

Length	Price
10 feet	\$2.40
12 feet	2.90
14 feet	3.35
16 feet	3.85
18 feet	4.60
20 feet	5.10



Trestles and Step Ladders

9-E-1229. Made of clear pine strongly constructed and well braced. Arranged so that plank may be put on either step. Steps are iron braced in front and back.

Height	Price
5 feet	\$3.00
6 feet	3.60
8 feet	4.80
10 feet	6.00

Superior Step Ladders

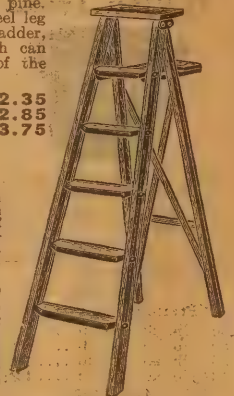
9-E-1241. Made of clear pine. Rods under every step. Steel leg spreaders. A strong, safe ladder, fitted with pail shelf, which can be readily folded up out of the way when not in use.

Height, 5 feet. Price, each. \$2.35
 Height, 6 feet. Price, each. 2.85
 Height, 8 feet. Price, each. 3.75

Automatic Self-Locking Ladder

These ladders are made from selected clear pine, fitted with pail shelf, hinges made of galvanized sheet steel, securely fastened to the flanges. This is a durable ladder, quoted at a low price.

9-E-1244. 4 feet, 20 pounds. ... \$1.40
 9-E-1245. 5 feet, 22 pounds. ... 1.75
 9-E-1246. 6 feet, 26 pounds. ... 2.10
 9-E-1247. 8 feet, 30 pounds. ... 2.75



Extension Ladders

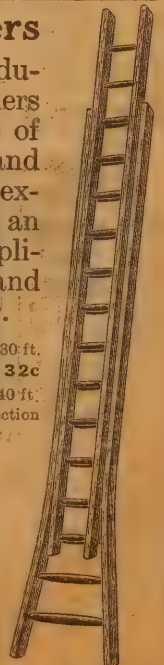
Strongest and most durable extension ladders manufactured. Made of clear selected pine, and hickory rounds. The extension rollers are of an improved design, simplifying the lowering and elevating of the ladder.

9-E-1250. Two sections from 20 to 30 ft. —per foot. ... 32c
 9-E-1251. Two sections from 30 to 40 ft. —per ft. 35c. \$1.00 extra for 3 section ladder.

Rope Extension Ladders

9-E-1221. Top section raised and lowered by a rope and pulley attachment. Fitted with improved automatic locking hooks, furnished only in two sections.

Lengths, 20 to 30 feet. ... 42c
 Price, 30 to 40 ft. Per Foot. ... 45c



Home Painting and Finishing Needs!

Bath Tub Enamel



Produces a hard, smooth, highly polished and non-absorbent surface. Effectually resists the action of hot and cold water, soaps and other preparations used in baths. With one pint you can do over and give it that new effect. Same remarkable results on sinks and wood and iron work about the

house. No skill is required. Easily applied, will dry over night.

9-E-903. Half Pint..... **35c**
Pint..... **57c** Quart..... **\$1.00**

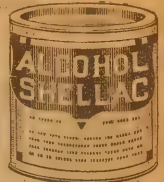
Painter's Time Saver



With this little tool you can paint as fast as you like and need have no fear of spoiling the decorations. Made of light metal, highly polished. No danger of spoiling the wall paper, window panes or door glass, etc. Also used when washing woodwork. Shipping weight, 8 oz.

9-E-13001. Price Each..... **20c**

Alcohol Shellac



Made from the finest grades of Guaranteed Pure Gum Shellacs in Denatured Alcohol. Used as first coat on furniture and interior work, except floors on which varnish is to be applied. Dries hard in about 2 to 4 hours. Will cover from 300 to 400 square feet, one coat. Pure Orange Shellac will give the wood an Oak color. White shellac is used where no color is desired. Also recommended for coating knots and sap spots before painting.

9-E-1039. Pure Orange Shellac.
Pt. Cans 65c Qt. Cans 1.05 1/2 Gal. Cans 1.95 1 Gal. Cans **\$3.50**
9-E-1041. Pure White Shellac.
Pt. Cans 75c Qt. Cans 1.20 1/2 Gal. Cans 2.20 1 Gal. Cans **\$4.00**

Stove Pipe Enamel



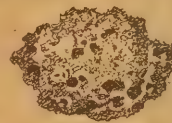
9-E-935. For stove pipes, stoves, furnaces, grates, smokestacks, iron fences; gives an enamel finish. We have reduced to a liquid state a mineral of volcanic deposit of intense blackness. Withstands heat and retains its brilliant, black luster. It will not peel or burn off; the surface to be painted is sufficient for six

months. Painted in cold. A length; black only. Price, 1/2 pint..... **15c**
Pint, **22c** Quart, **39c** Half Gallon, **75c**



Makes screens look like new. Does not clog the mesh. Dries hard and quickly. Green or black.

9-E-931
Gallons..... **\$1.50**
Quarts..... **.45**
1/2 pint..... **.20**



Large sponge, especially adapted for cleaning automobiles. A sponge that is guaranteed to give best service.

9-E-580 **25c**

Paste Wood Filler



9-E-1051. Better than any other, as it completely fills the pores, making an impervious surface over which to varnish. Apply with a brush, and after allowing 20 to 30 minutes to set, wipe off smoothly with a rough piece of burlap, wiping across the grain. Ten pounds will fill about 450 square feet. Made in three shades, natural, light oak and dark oak.

1 lb. can..... **20c** 5 lb. can..... **90c**

Kalsomine 16 Colors



Can be applied by any one. Shipped in powdered form, ready for use by mixing in hot water. Furnished in white, pea green, light green, lavender, blue, salmon pink, light pink, light tan, buff, gray, green, ivory and yellow. Put up in 4-lb. packages, enough for ordinary sized room.

9-E-315. Price, per package..... **45c**

FREE! Color Paint Chart

The most complete and attractive paint color folder ever produced. Mounted with chips showing the actual colors of Harris guaranteed paints, stains, lacquers, enamels and calcimine. Makes it easy for you to select the exact colors you wish. Ask for your copy now.

Premier T. Japan



9-E-1025. Is a very reliable heavy bodied oil drier. Will mix with any paint formula without any bad results. Is transparent and has a tendency to add durability to paint instead of burning up the durable qualities of the oil.

Pint 40c Quart 50c 1/2 Gal. 85c 1 Gal. **\$1.55** 5 Gals. **\$7.50**



Interior Floor Paint

Per **\$1.85**
Gallon

Harris Durable Floor Paint. Specially prepared and guaranteed to resist wear, washing with hot water and scrubbing, retains its bright, shiny surface. Paint dries overnight with a high gloss. Remains dust free and will be hard enough to walk on in twenty-four hours. Made in the following colors: Gray, russet, yellow, red, lead, green, tan and maroon. Specify color desired when ordering.

9-E-809. Harris Ready Mixed Floor Paint—
5 gallon cans, per gallon..... **\$1.85**
1 gallon cans, per gallon..... **1.95**
1 quart cans..... **.60**

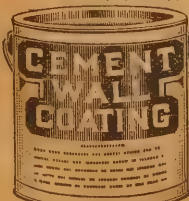


Harris Porch Paint

Per **\$3.35**
Gallon

Harris Porch Floor Paint. Specially prepared for floor work of porches and stairways. Guaranteed to resist the effects of rain, sun or most severe weather. It is particularly made of highest grade ingredients, which give the greatest preserving and resisting qualities for outside wear. Dries overnight, and obtains a high luster. Made in the following colors: Gray, russet, yellow, lead, red, green, tan and maroon. When ordering specify color desired.

9-E-810. Harris Durable Porch Floor Paint—
5 gallon cans, per gallon..... **\$3.35**
1 gallon cans, per gallon..... **3.40**
1 quart cans..... **.90**



Cement Wall Coating

Strictly formulated after careful tests to meet the exact physical and chemical requirements of a masonry surface. Guaranteed the most efficient and damp-proofing treatment. It penetrates into the pores of the surface, and on hardening thoroughly seals them. Will not wash off. Stands the hardest usage. An ideal paint for hotels, hospitals, schools or wherever cement is used. Furnished in dark cement, moss green, tan, brown, copper color and slate.

9-E-1201. Cement Wall Coating—
50 gallon barrels, per gallon..... **\$2.35**
25 gallon half barrels, per gallon..... **2.43**
5 gallon kits, per gallon..... **2.47**
1 gallon cans, per gallon..... **2.50**
1 quart cans, each..... **.70**



Cement Floor Coating

On ordinary floors it is almost impossible to make them look clean, but with our Harris Cement Floor Coating they not only make an attractive appearance, but are durable and it is almost impossible for any dust to lie on the surface. The concrete absorbs moisture so rapidly that it is impractical to clean them by ordinary methods.

Harris Cement Floor Coating makes the surface waterproof and at the same time so binding the particles that the dust making feature is eliminated. We can furnish same in the following colors: Cement, Pearl Gray, Slate, Terra Cotta.

Lot No. **9-E-1211.** One quart cans..... **\$0.68**
Lot No. **9-E-1215.** One gallon cans..... **2.48**
Lot No. **9-E-1217.** Five gallon kit, per gallon..... **2.45**

PAINTED ROOFING

GALVANIZED ROOFING



Galvanized Corrugated Sheets

Years of satisfactory service under even the most trying climatic conditions, support the statement that GALVANIZED Corrugated Sheets outlast all other roofing.

The Galvanized Corrugated Sheets we offer are surplus and reclaimed sheets. The stock has all been carefully re-conditioned, edges and ends squared, 2½-inch corrugated and painted red.

The length of your rafters, the size of your roof or the height of your siding will enable us to ship lengths that will lay to the best advantage.

\$3²⁵
Per
Square

7-E-128. 28 Gauge Overhauled Galvanized Corrugated Sheets.	
Per square of 100 sq. ft.	\$3.25
7-E-126. 26 Gauge Overhauled Galvanized Corrugated Sheets.	
Per square of 100 sq. ft.	\$3.50
7-E-124. 24 Gauge Overhauled Galvanized Corrugated Sheets.	
Per square of 100 sq. ft.	\$3.75

Brick Siding

Smooth imitation Brick Siding. Suitable for outside sheeting of an entire building, or foundation covering. Standard weight metal sheets, pressed in smooth brick design and painted red.

7-E-127. New Red Painted Brick Siding. Per square of 100 sq. ft. **\$3.45**

Beaded Ceiling Sheets

These ceiling sheets are made of standard metal. They show a three-eighths bead on a three-inch center, same as wood beaded ceiling. Sheets are painted red. Give the size of the surface to be covered for shipment of correct sizes.

7-E-129. New Red Painted Metal Beaded Ceiling Sheets.
Price per square of 100 sq. ft. **\$3.40**

Overhauled Painted Corrugated Sheets

The sheets we list as follows have been overhauled, trimmed and painted. We recommend the lighter gauges for siding and the heavier for roofing or more permanent siding work. They will run in uniform widths of 24" or wider and in lengths up to and including 7 feet.

7-E-27. 28 Gauge Overhauled Corrugated Sheets. Good for SIDING ONLY.	\$2.25
Price per square of 100 sq. ft.	
7-E-29. 28 Gauge Overhauled Corrugated Sheets. This stock is more carefully selected. Price per square of 100 sq. ft.	\$2.75
7-E-30. 26 Gauge Overhauled Corrugated Sheets. Price per square of 100 sq. ft.	3.00
7-E-31. 24 Gauge Overhauled Corrugated Sheets—Heavy. Price per square of 100 sq. ft.	3.50
7-E-32. 22 Gauge Overhauled Extra Heavy Sheets. Price per square of 100 sq. ft.	3.75

\$2²⁵
Per
Square

Roofing Accessories

Nails, per square.	8c
Lead washers, per square.	7c
New ridge roll with corrugated apron, per foot.	12c

All Prices are F.O.B. Cars, Chicago

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

AJAX ROOFING

RAWHIDE ROOFING



Wonderful Roofing Values!

We offer you in Ajax Smooth Surfaced roofing, A Real Roofing Value.

The price is not low because it is cheap competitive stock but on account of the rolls running in 2 to 3 lengths to a full roll of 108 sq. ft.

This stock is Mill Ends of High Grade material, not seconds, offered as follows complete with all necessary nails and cement for laying:

13-E-9010.	Ajax Light Weight, per roll.....	\$0.98
13-E-9011.	Ajax Medium Weight, per roll.....	1.22
13-E-9012.	Ajax Heavy Weight, per roll.....	1.40

98c

Per
Roll

Repair Job Roofing!

Good for lining—wind breaks—small roofing jobs—repair work—patches—a dandy article to have on hand at all times. Order a few rolls with your regular order. These rolls are classed as seconds and run 108 square feet to the roll. We cannot guarantee weight. The rolls may run all heavy or in mixed plies to each roll.

13-E-2016.	Repair Job Roofing.
Per roll.....	\$1.00
Nails and Cement, per roll extra.....	10c

Tar Paper

Good for basement lining, sheathing, etc., and especially recommended to lay under metal roofing to keep the moisture from accumulating on the underside of the sheets.
13-E-9018. Tar Paper. 108 square feet to roll..... **35c**

RAWHIDE ROOFING "Tough as its Name"

No other name than "Raw-hide" in its full meaning could be found for this pliable, tough roofing—no need for any other description—the name tells the story.

We know the quality of every ounce of material entering into the manufacture of this roofing—we know every step in the method of its preparation for the market, to the extent that we guarantee to replace free of charge every roll defective in quality within the time of our guarantee.

Why not buy a roofing upon which the burden of its wear rests upon us? Every roll contains 108 square feet and is complete with cement and long or short nails.

13-E-9013.	Raw-hide, light weight, 8 year guarantee. Price, per roll.....	\$1.25
13-E-9014.	Raw-hide, medium weight, 10 year guarantee. Price, per roll.....	\$1.45
13-E-9015.	Raw-hide, heavy weight, 12 year guarantee. Price, per roll.....	\$1.65

\$1²⁵

Per
Roll

Gold Medal Roofing

Rawhide Stone Faced

**Guaranteed
for
20 Years**

We replace, free of charge, every roll of **GOLD MEDAL ROOFING** that proves defective in quality within the term of our Guarantee.

The best grade of felt, the highest quality of asphalt and the best method known of saturating are all combined in this product.

Our perfection in the weather-resisting surface, known to no other class of material, is due to years of experiments and enables us to place the above guarantee on this material.

It is fire and lightning resistant and will not ignite from flying brands or sparks.

Regulation $\frac{1}{8}$ -inch nails or long nails for over shingles, packed complete with cement enough to lay every roll.

13-E-9019. GOLD MEDAL ROOFING, 20 Year Guarantee, complete with nails and cement. Per roll.....**\$2.35**

Superior Slate Coated Roofing

Standard weight, 85 to 90 pound red or gray-green slate coated roofing, complete with nails and cement. Specify the color you desire.

13-E-9020. Superior slate coated roofing. Per roll.....**\$2.10**

Special-Selected Mill Ends

Under this heading we offer you brand new, 85 to 90 pound slate coated roofing put up in full rolls of 108 square feet, complete with nails and cement. All rolls running about two to three lengths to the roll—furnished in red or gray-green.

13-E-9021. Special selected Mill ends. Per roll.....**\$1.75**

Slate Roofing Seconds "As Is"

We buy from various manufacturers, slate coated seconds, more or less defective in surfacing. 85 to 90 pounds stock—could be used with the underside exposed and the defective side next to the roof or with a good coat of heavy paint will make a lasting roof covering.

13-E-9022. Slate seconds, unselected, full rolls complete with nails and cement. Per roll.....**\$1.25**

**All Prices Are
F. O. B. Chicago**

**\$2³⁵
Per Roll**

Slate Coated Roofing
Red or Gray

**\$1²⁵
Per Roll**



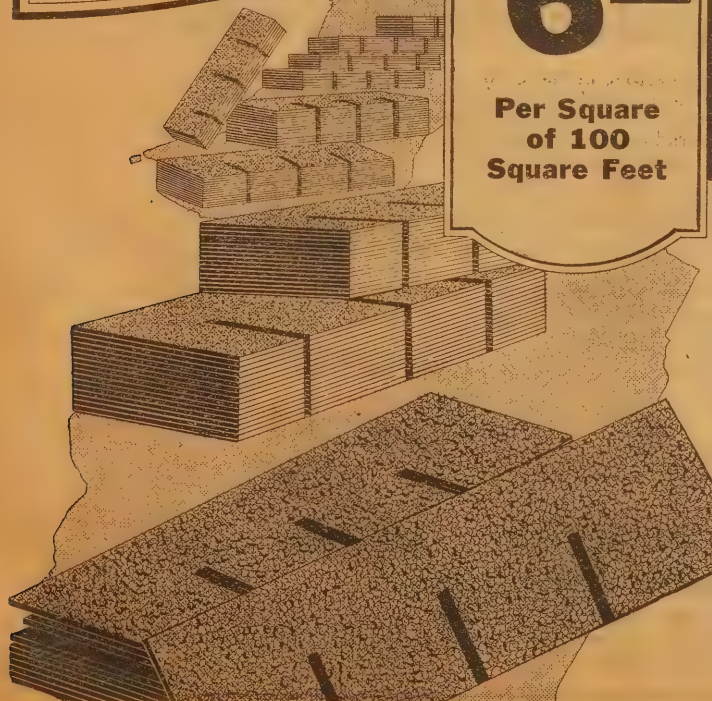
Asphalt Shingles

Slate Coated



\$6⁵⁰

**Per Square
of 100
Square Feet**



Here Is Your Chance to

S-A-V-E!

We offer you here first quality 15-year
GUARANTEED high grade standard
weight shingles at way below market prices.

Square Butt Slate Coated 4-in-1 Slab Asphalt Shingles

These shingles are made in standard Underwriters
specifications, surfaced in all styles with natural colored
red, gray-green or blue-black crushed slate coating.
There is no better standard shingle on the market. Slabs
are 33 inches long, 10 inches wide. **State color wanted.**

13-E-110. In squares of 100 square feet,
weight about 200 lbs. Price per square.....**\$6.50**

Harris Slabs

The **ONLY** slab shingle that can be used to lay a
variegated roof pattern. Slabs are 36 inches long and 11
inches deep. Requires less nails and labor to lay than
any other shingle. Can be laid in alternate rows of red,
gray-green or blue-black or in solid color. The alter-
nate rows of the three colors give the roof a variegated
appearance, showing hexagon tile effect over the entire
roof.

Be sure and give the solid color preferred or specify
variegated if you desire the new type of roof. The easiest
slab on the market to lay—no slots—no clips—no tricks.

13-E-120. Harris Slabs.
Per square of 100 sq. ft.....**\$5.50**

Slate Coated Individual Asphalt Shingles

Individual shingles of the same quality as the 4-in-1
shingles above. They are 9 inches by 12 $\frac{3}{4}$ inches in size
and are laid 4 inches to the weather and $\frac{1}{2}$ inch apart,
nailed 5 inches from the butt of the shingle. In red, gray-
green or blue-black. **State color wanted.**

13-E-130. In squares of 100 square feet,
weight about 240 lbs. Price per square.....**\$6.30**

SHINGLE SECONDS

We have on hand at all times, a limited quantity of
Factory seconds in three distinct styles. These
shingles are new, standard weight stock, but sorted
as seconds because of slight imperfections in slate
coating or color. Can be sorted with little waste
and a good and satisfactory job be made. Slate
coated in red, gray-green or blue-black. **State
color preferred.**

13-E-170. Square Butt Four-in-One
Slabs (Factory Seconds). Per square of
100 sq. ft.....**\$4.50**

13-E-180. Doubletite Slabs—Same as Square Butt
except that the corners are cut from the butt of each
shingle. Factory Seconds. Per square
of 100 sq. ft.....**\$4.25**

13-E-190. Individual Shingles—Factory
Seconds. Per square of 100 sq. ft.....**\$4.00**

**BE SURE TO ORDER BY NUMBER AND
STATE COLOR WANTED.**

Liberal Terms

No Cash in Advance

We do not ask you to pay us cash in advance in any instance.

In all fairness you cannot, however, expect us to ship you, perhaps a stranger, a valuable carload of material without some evidence of good faith on your part. We have, therefore, printed our terms of shipment in plain, easily understood language, giving you four different methods by which you can order.

Whether or not you send cash with your order, you are protected in every way by our guarantee. The advantages of sending cash in full with order are the earning of the cash discount and the saving of delays and annoyances in getting possession of the material at your end of the line. Our cash discount is allowed only when full remittance is sent when you order. The printed prices of Harris Homes are free on board cars Chicago. Freight paid prices quickly quoted by return mail. Take your choice of the following terms, mentioning the number when you order.

Terms A No cash with order. We will ship you material without any cash payment whatever. Payment must, however, be covered by special terms guarantee blank (blank sent on application) which gives you 5 days time to inspect and unload before paying.

Terms B Ten to 25 per cent cash with order (depending upon distance to be shipped and amount), balance to be paid straight C. O. D.

Terms C Two per cent special discount. A special dis-

count of 2 per cent will be allowed only when full remittance is sent with order.

Terms D Pay through Loan. If you are making a loan to cover the cost of construction, send in your order together with a deposit of one hundred dollars (\$100.00) and a letter from the Building and Loan Association or Bank that is making the loan, advising us that we will be paid out of the proceeds of same, as building progresses, and we will ship materials at once.

Certificate of Unconditional Guaranty

We Guarantee absolutely and without reserve, that we will furnish for each and every order for any design shown in this book, at the price quoted, sufficient material to build same in a good substantial and workmanlike manner, strictly according to the Blue Print Plans; Specifications and Material List furnished.

We Guarantee and agree that in the event of there not being sufficient material, to reimburse our customer for any purchase he may make on account of shortage or error—we to be notified of such shortage or error, however, and to have the right first to furnish the missing material ourselves, or authorize our customer to purchase it at our expense.

We Guarantee to furnish with each order for any of our designs, full directions in the form of an itemized list of material, showing just exactly the number of pieces, feet, size, grade, style, finish, etc., of the material furnished, designating the purpose for and the place in which it is to be used.

We Guarantee to furnish with each shipment an itemized invoice, showing just what is in the shipment, so that our customer may check the material received against our invoice. If anything is short, notify us at once. After this has been done and the amount received is found not sufficient to complete the job, then, if the error is ours, we still hold ourselves responsible.

A. Harris

FREE Architectural Service for Harris Home Buyers!

With Every Harris Home Beautiful ordered we furnish complete ready cut blue print plans and erection instructions absolutely free of charge. Architect's charge for this service is usually 10% of total cost.

General Specifications of the Material We Furnish for Harris Homes Beautiful

While the specifications below are our standard, there is no hard and fast rule why you cannot add, omit or change material wherever your own ideas make it preferable to do so. All our Harris Homes, however, are designed to be built along the standard of these excellent specifications.

TO ENABLE you to realize the wonderful completeness of our Harris Homes, we furnish for your convenience, the following brief general specifications of the material furnished. However, with each set of Plans of the Harris Home you select, a descriptive material list, showing exactly every item that enters into the construction of your home is furnished.

In every paragraph of the following specification you will note that great care has been taken in planning for strength and long life in the construction of your home.

You get this information *before you buy*; so there is no possible chance for you to be deceived. You can check up to the very last nail what goes into your house, as our catalog numbers are given on the material list, and there is nothing left to *imagination or guess work*. This method is far superior and safer for you than a lengthy book specification without proper material catalog to check up with.

- 1 Ready-Cut Framing Material** All Framing Material is furnished "Cut-to-Fit" or "Ready-Cut," which means the same guaranteed in correct sizes and dimensions, in accordance with accepted standards of first-class building construction throughout, as follows: The pieces are framed, notched or bevelled to the correct sizes, ready to be nailed in place without any cutting by the carpenter; every piece marked; construction standardized by spacing all members, such as Studs, Joists, Rafters, 16 inches from center to center, and therefore always 14 1/2 inches apart. This is most important—satisfy yourself what others have to offer before buying. Cut-to-fit Girders furnished ready to nail together.
- 2 Ready-Cut First Floor Joists** We furnish correct size required for your building, either 2 x 10 or 2 x 8 or 2 x 6 No. 1 grade Yellow Pine, surfaced and edged. Spaced 16 inches on centers.
- 3 Ready-Cut Box Sills for First and Second Floor** To correspond with size of Floor Joists, No. 1 grade Yellow Pine, surfaced and edged.
- 4 Ready-Cut Second Floor Joists** Of correct size required either 2 x 10 or 2 x 8 or 2 x 6 No. 1 grade Yellow Pine, surfaced and edged. Spaced 16 inches on centers.
- 5 Ready-Cut Attic Floor Joists** 2 x 6, 16 inches on centers, No. 1 grade Yellow Pine, surfaced and edged.
- 6 Ready-Cut Ceiling Joists** 2 x 4 or 2 x 6, as may be required, 16 inches on centers, No. 1 grade Yellow Pine, surfaced and edged.
- 7 Ready-Cut Porch Floor Joists** 2 x 6 or 2 x 8, depending upon size of porch, spaced 16 inches on centers, No. 1 grade Yellow Pine, surfaced and edged.
- 8 Ready-Cut Porch Beam** 2 x 6, 2 x 8, 2 x 10 or 2 x 12, doubled, tripled, or trussed as may be required, No. 1 grade Yellow Pine, surfaced and edged.
- 9 Ready-Cut Porch Rafters** 2 x 4 or 2 x 6, as may be required, spaced 16 inches on centers, No. 1 grade Yellow Pine, surfaced and edged. Jacks and Hips marked and bundled in pairs.
- 10 Ready-Cut Porch Bulkhead Studs** 2 x 4 spaced 16 inches on centers, in No. 1 grade Yellow Pine.
- 11 Ready-Cut Outside and Inside Studs** 2 x 4 spaced 16 inches on centers, No. 1 grade Yellow Pine, surfaced and edged (standardized); no time wasted to find a certain piece or certain number. All Inside and Outside Studs are of the same length, as are also the "Cripples" above or below the window and door openings. See details in illustration, shown on preceding pages. This applies to double stud outside wall construction, as shown in illustration.

General Specifications—Continued

- 12 Ready-Cut Roof Rafters** 2 x 4 or 2 x 6, spaced 16 inches on centers, No. 1 grade Yellow Pine, surfaced and edged. All notches, bevels and plumb cuts, are accurately cut-to-fit by us. Jack, Hip and Valley rafters come to you bundled in pairs.
- 13 Ready-Cut Headers, Cripples and Door and Window Studs** For window and door openings, inside and outside walls and partitions; furnished of correct size and dimension to match balance of construction in No. 1 grade Yellow Pine, surfaced and edged stock. Headers doubled above and below openings with studs to double up at side of openings. This insures extra strength and solid nailing for outside and inside door and window trim; prevents sagging and bulging of framing. Each opening set bundled and size plainly marked, instead of 11 pieces to hunt for you have just 1 handy bundle.
- 14 Ready-Cut Stair Headers and Trimmers** For Stair Openings, furnished in dimension stock to match size of joists, No. 1 grade Yellow Pine. Doubled at all openings to insure extra strength.
- 15 Ready-Cut Stair Landing Joists and Headers** Bundled and marked and of No. 1 grade Yellow Pine, surfaced and edged.
- 16 Ready-Cut Stair Horses** 2 x 10 or 2 x 12, No. 1 grade Yellow Pine, as may be required furnished for Cellar, Grade, Main Stairs, Attic Stairs, Front and Rear Steps with rise and run accurately cut.
- 17 Ready-Cut Double Cross Bridging** In No. 1 grade Yellow Pine, one row double cross bridging every eight feet.
- The following items are not furnished "Cut-to-Fit," for reasons that a better job and at a saving, not only in first cost, but also in labor, can be made by doing the little cutting that is necessary right on the premises:
- 18 Wall Plates, Girder Posts, Partitions and Outside Wall Plates** These items require little or no cutting and demand such an accurate fit, in order to make a correct job, that it is better and more economical to fit them on the premises. Wall plate or bond timber 2 x 6 insure even surface for joist. Girder 6 x 8. Floor plates 2 x 4 single. Inside partition and outside stud top plates always double and of course furnished in No. 1 Yellow Pine.
- 19 Sub-Flooring, First and Second Floors** Square edge and sound inch Yellow Pine Lumber, surfaced to standard size and even thickness, furnished for both first and second floor, to be laid diagonally or square. An item like this can be cut and fitted on the job in less time than to hunt a marked piece and locate the place to put it, and you do not pay for labor twice.
- 20 Roof Boards** Inch lumber, square edge and sound surfaced to standard thickness, 1 x 4 No. 2 grade Yellow Pine. Correctly spaced to prevent shingle rot.
- 21 Wall or Box Sheathing** Square edge and sound inch Yellow Pine Lumber, surfaced to standard size and even thickness, to be laid diagonally or square. Shiplap can be furnished if desired.
- 22 Attic Flooring** For all designs having stairway to attic: 1 x 6 tongued and grooved, Yellow Pine Flooring (No. 2 grade) is furnished to cover space as shown on plans.
- 23 Finish Flooring Oak** Oak, $\frac{3}{4}$ x 2 $\frac{1}{4}$ inch face "Good Better" grade for all rooms throughout. Maple can be furnished when desired. Note this when comparing prices, others usually specify Yellow Pine or Fir.
- 24 Shingles** To be Washington Red Cedar Shingles, Best Quality 5/2 Clears. The quantity we furnish is sufficient to lay the shingles exposed 4 $\frac{1}{2}$ inches to the weather.
- 25 Siding** We furnish CLEAR and FREE from KNOTS siding of best woods; as may be specified in our Bill of Material, generally giving the customer three kinds to choose from.
- 26 Lath** For the Lath we furnish No. 1 Quality Soft Pine Lath. Half of each, 48 and 32 inch.
- 27 Grounds** 1 x 1 surfaced No. 1 Yellow Pine or Fir.
- 28 Porch Material** Columns, Newels, Rails and Balusters and all porch material is furnished in CLEAR, SOFT OREGON FIR STOCK, which makes the best possible finish for the purpose. Columns and newels of the proper lengths furnished ready to set in place. Rail and Balusters furnished in correct lengths to be cut and fitted on the premises to make a satisfactory job. For porch flooring we furnish Clear Quarter Sawed Fir or Clear Flat Sawed Fir Flooring, as Material List may specify, all in full length.
- 29 Exterior Finish** We furnish all corner boards, water table base, verge boards, brackets, frieze, belts, flower boxes, mouldings where shown in plans. CLEAR, SOFT OREGON FIR or CYPRESS STOCK. Porch ceiling and cornice soffits in $\frac{3}{4}$ -inch thickness, matched and beaded stock suitable for oil finish. Step treads and risers shown on Blue Print included—when ordering, be sure to tell us if you need more steps than shown. This part of your building material should be cut and fitted on the job; in order to insure a perfect fit and to prevent water from getting into and under open joints, causing quick-rot and rapid decay. A perfect fit would be impossible were the material cut to fit anywhere else, should the house accidentally be built slightly out of true—and where is there a house that isn't? Think this over carefully.
- 30 Ready-Cut Outside Door and Window Frames** We furnish all Outside Door and Window Frames of CLEAR, SOFT OREGON FIR, 1 $\frac{1}{4}$ x 4 $\frac{1}{2}$ inches OUTSIDE CASINGS all shipped in the knocked down ready to nail together, carefully marked and bundled; one frame is shipped already "set up"—makes work easy on balance.
- 31 Window Sash** Windows and sash furnished with glass in place. All windows furnished bored and grooved, ready to receive sash cord. All windows are 1 $\frac{3}{8}$ inches thick, check rail and glazed as specified. Sash stock is STRICTLY CLEAR SOFT PINE.
- 32 Ready-Cut Inside Door Jambs** Furnished with proper head piece—jambs being grooved (dadoed) ready to receive head piece, all clearly marked and bundled. All clear lumber.

General Specifications—Continued

- 33 Ready-Cut Stairway** Main stairway Ready Cut material, consisting of stringers housed, ready to receive the treads and risers. Treads and risers are clear, beautifully grained lumber. CLEA R, FREE from knots, SAP or STAIN, all finished and sanded. Carefully packed, marked and bundled. Cellar and Attic stair treads and risers cut to right length in No. 1 Yellow Pine. Rough stair horses are furnished ready cut for correct run of tread and risers for all stairs.
- 34 Doors Mortised** All doors mortised to receive locks. A big saving. All inside doors clear "A" quality, 1 3/4 inches thick, sizes and styles marked on plans and specified in the List of Material. The outside front door to be glazed and of 1 1/4 inch thickness.
- 35 Ready-Cut Interior Trim** All material for this work to be CLEA R, FREE from knots, SAP or STAIN, Georgia Pine (unless Oak or other woods are specified), including all door and window trim, baseboard, carpet strips, base blocks, chair rail, hook strip, picture moulding, etc. All materials to be entirely suitable for natural wood finish, or any of the many beautiful stain effects now so deservedly popular. Detailed full size on sheet with Blue Print Plans. All Ready-Cut, except Base Board, Picture Moulding and Chair Rail, which must be cut when set in place to make a good job.
- 36 Building Paper** We furnish sufficient building paper to cover the entire outside walls of the building, and for between floors on both first and second floors. This paper is a standard good quality as used in best construction work. Tarrd felt for walls, red rosine for floors.
- 37 Hardware and Nails** Solid bronze night latch front door lock furnished. Mortise door locks for all doors all of appropriate design; all butts, sash lifts and fasteners to match. Antique Copper or Lemon brass finish nickel-plated hardware for bath room. We also furnish the necessary sash weights, cords, ball bearing window pulleys, base knobs, coat and hat hooks, common, coated, galvanized and finishing nails, etc., for the completion of the job. No advertising appears on door knobs or other material.
- 38 Galvanized Iron** Under this branch of building work we furnish all the necessary down spouting, guttering, in slip joints requiring no soldering with necessary fittings, flashings, tin shingles, etc., and all in the best galvanized iron.
- 39 Three Coats Paint** We furnish Harris guaranteed quality painting materials for all our houses, three coat work. Consisting of priming coat and two coats best quality Lead and Oil Prepared Paint for exterior, body, trim and porches. Paste wood filler and two coats guaranteed varnish for floors. One coat oil and acid stain, one coat shellac, one coat spar varnish for interior trim and doors. Two coats flat white paint and one coat high gloss white enamel for woodwork in bathroom. Mineral paint for sheet metal. Pure boiled linseed oil, turpentine, benzine and alcohol for thinning. Assorted colors in oil, sand paper and steel wool. Creosote Shingle Stain furnished for dipping wall shingles when shown in illustration. No roof paint or stain.
- 40 Harris Byrkits Sheathing Lath** When furnished is to be applied directly to the studding over heavy tar felt on all houses showing plaster exterior. Made from inch lumber tongued and grooved, keyed out to form tight grip on stucco plaster, reinforced with No. 9 gauge galvanized wire and staples and expanded metal lath at corners. When using Byrkits lath, this reinforcing, is demanded by plaster manufacturers when guaranteeing their product. The use of Byrkits lath is endorsed by many of the largest Patent Stucco manufacturers when guaranteeing their stucco, provided it is re-inforced as specified above.
- 41 Blinds and benches** are shown for decorative effect only and are not included in our price. Prices, if wanted, quoted on request.
- 42 Ceiling Heights** First story 9 feet in the clear, second 8 feet 6 inches in the clear is our standard throughout, with but very few exceptions where it has been found necessary to deviate.
- 43 Recapitulation** The above will give you a general idea of the high class of material we furnish. We do not include masonry material of any kind except the lath—and will furnish—

Special Quotations on

Plumbing	Shades
Heating	Cabinet Work
Electric Fixtures	Electric wiring
Screens	Plasterboard
Storm Sash	Magnesite outside
	Wall plaster

See Building Material Section in this Catalog

For illustrations of beautiful Interior trim, Doors, Windows, Hardware, etc. etc., see millwork pages of this catalog.

Important—Shipments From Chicago

Quick motor truck delivery to building site in Chicago and Vicinity

When you order your Harris Home it will be loaded right here in Chicago where you may come and personally inspect the loading. We have our own Lumber Yard and Planing Mill, Millwork Warehouse and Factory, Hardware, Paint, Plumbing and Heating Departments as well as other departments handling material generally going into a house.

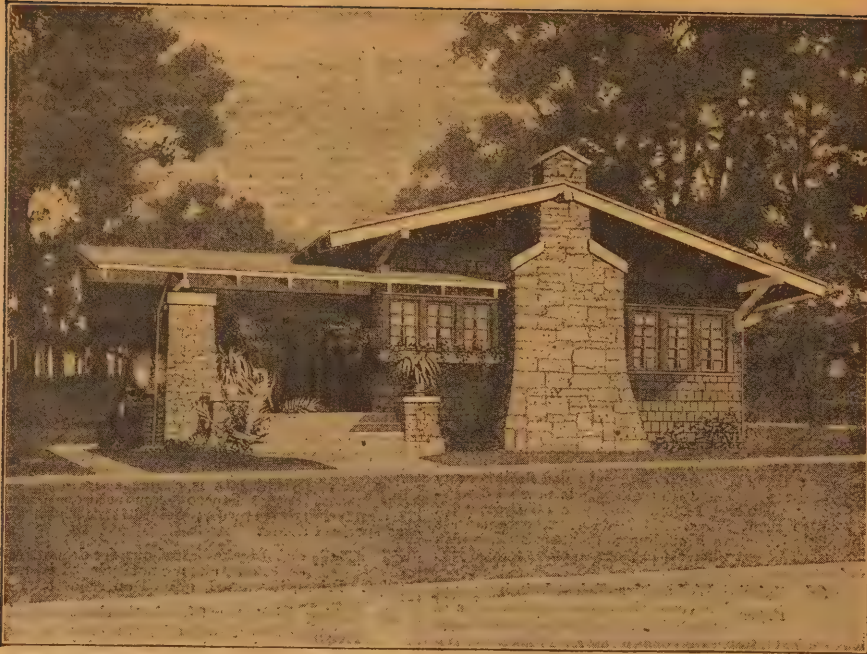
Do you realize what this means to you in the way of saving in freight and handling charges at your end of the line, as against having your lumber come from one point, Millwork from another, Hardware from another, and Paint from still another,—each with their extra hauling, handling, and freights to be paid as well as accompanying delays—and on top of it get the material you need FIRST last, or vice-versa? When you buy a Harris Home this is avoided.

Chicago enjoys low freight rates and exceptional railway facilities.

Insist upon knowing where your material comes from and how many shipments before you place your order anywhere else.

Also shipments from our Eastern Headquarters Branch—Cresskill, N. J.

Quick motor truck delivery can be made to building site in New York City and vicinity. Freight shipments to New Jersey, Eastern New York, and New England States can now be made from our Eastern Headquarters Branch at Cresskill, New Jersey,—just across Hudson River from New York City.



Furnished also
with Breakfast
Room—Plan-B
PRICE
\$2070

Harris Home No. E-1000

The Size
28 ft. x 41 ft. 4 in.

5 Rooms
and Bath

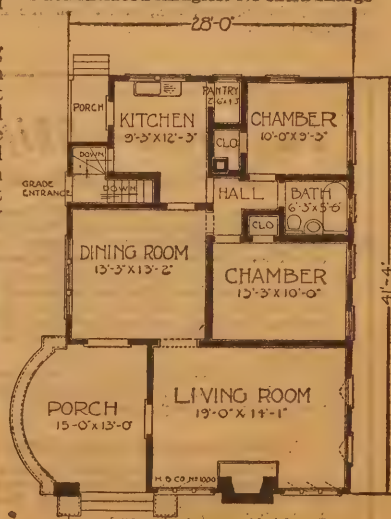
PRICE
\$2020

HERE is a model bungalow of the charming California type. Viewed from any direction a passing glance is invariably turned to a look of prolonged admiration. With its wide overhanging eaves, supported by heavy decorative brackets, the unique treatment of the side porch with its exposed rafters, this bungalow is graceful in structural lines, picturesque and substantial in appearance. Many types of the California bungalow are not practical in climates where the winters are severe. In developing this design our architects have exercised utmost care to combine fascinating features of a true California bungalow with a convenient, comfortable interior and properly constructed for any locality.

Just off the veranda, a large living room occupies the entire front—it is flooded with light from front and side by well placed casement sash. A cheery fireplace adds both beauty and hospitality. A wide cased opening leads to the dining room. Here we have a large well lighted room with a pair of French doors opening on the veranda and swinging doors leading direct to the kitchen with the pantry conveniently located.



AS ERRECTED AT HARRISBURG, PA.



FLOOR PLAN



PLAN A
PRICE
\$1917

Harris Home No. E-1001

The Size
26 ft. 6 in. x 36 ft.
Inclusive of Bay

5 Rooms
Attic and Bath

PLAN B
PRICE
\$1899

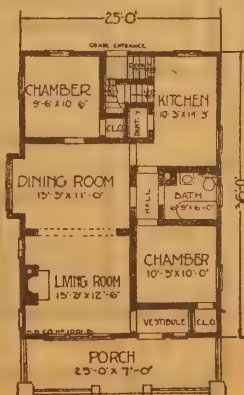
Two Floor Plans to Choose From

THERE is a wealth of character to this attractive Bungalow, both in appearance and arrangement of the floor plan. Here we offer two different arrangements. Select the one that suits your particular needs. There is plenty of room in the attic for two extra rooms which

you can add later on, if wanted. Heavy attic floor joists and attic flooring have been provided for and are included in given price without extra charge.



PLAN A
FLOOR PLAN



PLAN B
FLOOR PLAN

Any Harris Home can be reversed or furnished in all bevel siding or a combination of siding and wall shingles without extra charge. Finished room sizes given in plans.



PLAN A
PRICE
\$1594

Harris Home No. E-1017

Size 25 ft. 6 in. x 36 ft.
Inclusive of Bay

5 Rooms
and Bath

PLAN B
PRICE
\$1617

JUST the dandiest size rooms ever planned. Nothing cramped or skimpy about them. This Harris Home is truly a bungalow that will make the heart glad. Unusually attractive, solid, substantial and comfortable appearance from the outside and the same carried on right through on the inside.

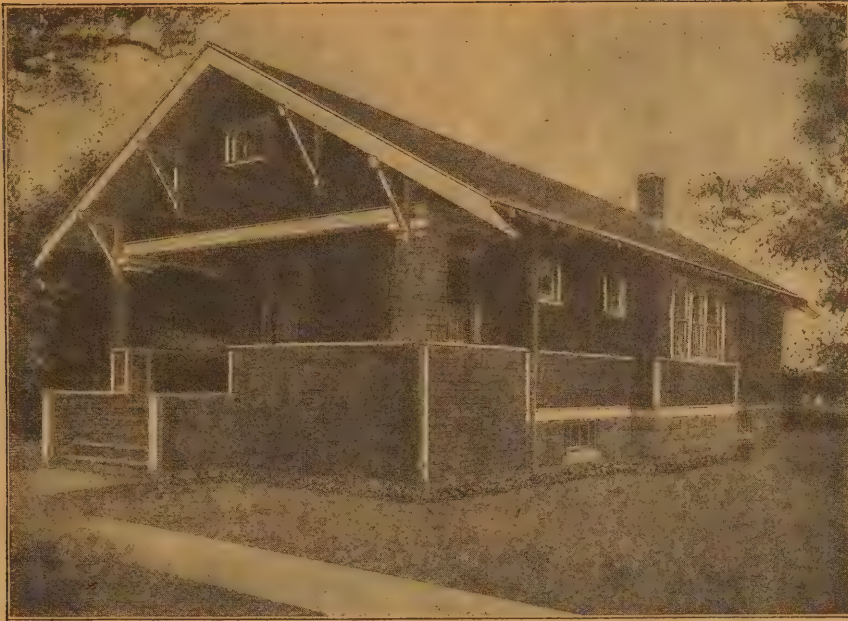
The outside walls of this home are designed to be stucco plastered; you have heard what wonderful success builders are having with the patent magnesite plasters offered at reasonable prices today.

It is a fact that you can get patent stuccos in every possible color. Remember, we furnish building paper and Byrkits Patent Sheathing Lath to which stucco plasters adhere wonderfully and does not crack.

The living and dining rooms have an exceptionally roomy appearance. The handsome spread of windows in dining room give a flood of light.

This home also furnished with box sheathing, building paper, bevel siding, painting material for three-coat job, instead of Byrkits Lath for an additional charge.





PLAN A
PRICE
\$1635

Harris Home No. E-1018

The Size
24 ft. x 32 ft.

5 Rooms
and Bath

PLAN B
PRICE
\$1646

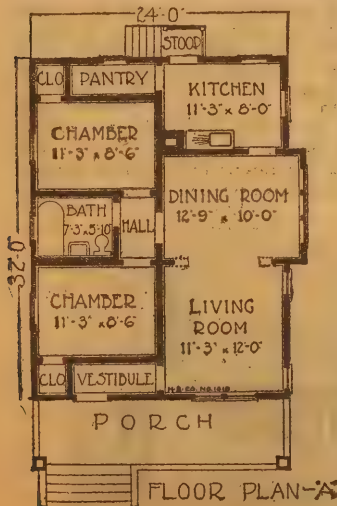
HERE is a charming California bungalow with all the conveniences you could wish for. There is nothing lacking in exterior elegance or interior comfort and room arrangement. The broad, spacious porch, covered by the main house roof with its strong supporting brackets and the divided-light window in the gable place this building in a class far beyond the ordinary type.

The living and dining rooms are separated by a wide cased opening. This gives a roomy appearance. The opening can be made smaller if owner desires, without extra

expense, or if a book case colonnade, French doors or sliding doors are wanted, they will be furnished for whatever the material is worth.

You have two stock floor plan arrangements to select from; surely more convenient plans would be hard to find.

The exterior is of bevel siding and cedar shingle combination. You can have all shingles or all siding without extra charge. Note in our specifications that with wall shingles, we furnish creosote stain for dipping and not a brush coat.





Immediate
Delivery

Harris Home No. E-1025

Size 26 ft. 10 in. x 41 ft. 4 in.
Inclusive of Bay

5 Rooms, Bath
and Sun Parlor

PRICE
\$1798

BUNGALOW admirers will find their highest ideals sensibly incorporated and fully realized in this pleasing home. Both the exterior and interior show a keen regard for all that is modern in room arrangement, design and construction. Stucco and siding for the outside walls in this fashion is always pleasing and desirable. The hip roof with its wide overhanging eaves, the sunken panel porch columns and large fireplace chimney are characteristic of true bungalow designing.



The light, airy sun-parlor with its many French windows is probably the most outstanding feature of the excellent interior. Examine the floor plan. The well placed vestibule leads to the living room. Handsome casement sash are placed on each side of the "homey" fireplace. French doors lead to the sun parlor. Outside walls above window sills are sheathed with Byrkits patent sheathing. Stucco plaster is not included in our price. If you prefer shingles or bevel siding, we can substitute whichever is most desirable for small additional charge.

As built by one
of our customers





Two Extra
Rooms Upstairs
\$295

Harris Home No. E-1028

The Size
25 ft. 4 in. x 36 ft.

Five Rooms
and Bath

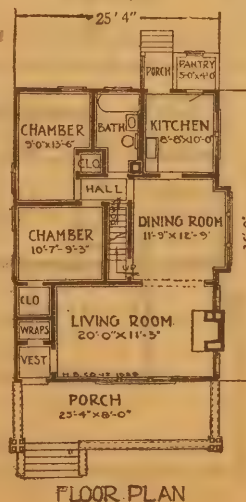
PRICE
\$1894

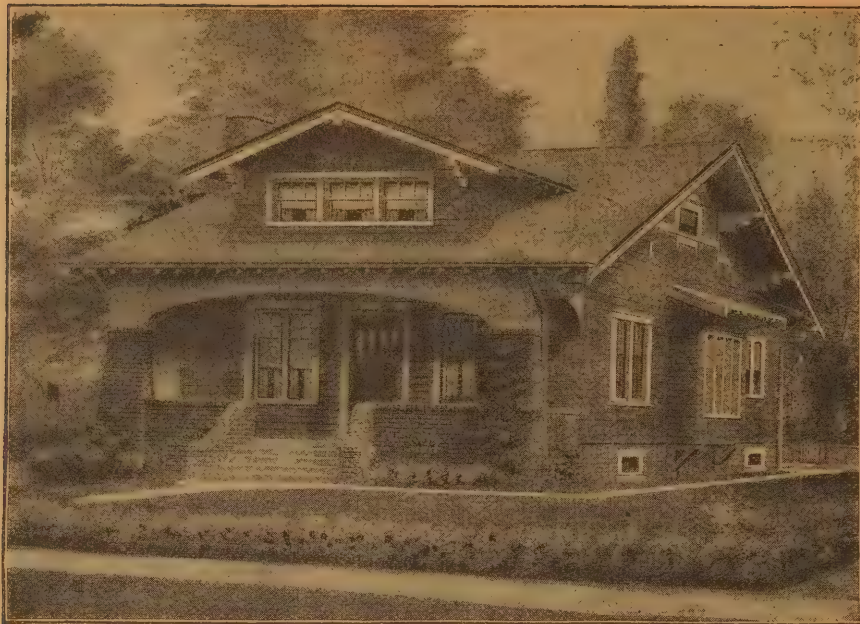
A NEW Harris Home upon which our architects have spent weeks of study—here is the result. Does it not seem to grow out of the ground? The foundation is of brick with brick veneer to the window sills and stucco above.

Note the inside stairway to the basement and also to the attic. The pantry addition can be furnished at a small additional cost. This neat trim home viewed from any angle has an air of substantiality with features of good taste and practical designing. Buildings of this type have come to stay, not only for their elegant exterior, but the general proportions permit all comfortable, practical room arrangements. Here is a splendid home built with big economy "The Harris Way." Nothing lacking anywhere.

Study the floor plan of this design—read our free blue print plan offers in the first pages of this book. What more could you wish for in comfort, convenience and arrangement? Everyone admires this Harris Home from every viewpoint.

Finished room sizes given.





Three Extra
Rooms Upstairs
\$325

Harris Home No. E-1503

Size 27 ft. 6 in. x 40 ft.
Inclusive of Bay

5 Rooms, Bath
and Large Attic

PRICE
\$2222

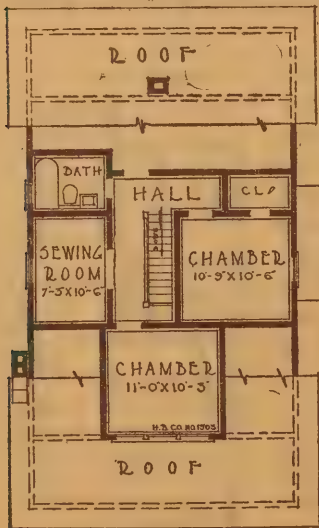
HERE is the beauty of all beauties, and not only does this apply to the exterior appearance, which really speaks for itself, but equally as well for the interior. The plan of the rooms is perfection itself. The building of such a Harris Home carries with it a pride of ownership that bespeaks of solid citizenship, dependability, comfort and sensible good taste.

The broad inviting front porch and the spacious living room are true adjuncts to a successful bungalow and to a real home. As we enter this room we are impressed

with its beauty.

There is a handsome mirror door included that leads to the second floor. The view through to the dining room is wonderfully charming. The dining room has a long broad bay window with four attractive casement sash. If front porch is wanted enclosed, same can be furnished for small additional cost.

The best yet—there is space in the attic to finish off three rooms, hall, large closets and an extra bath as shown in suggested second floor plan. See price lists for cost of material to finish off these rooms.



SUGGESTED
SECOND FLOOR PLAN



FLOOR PLAN



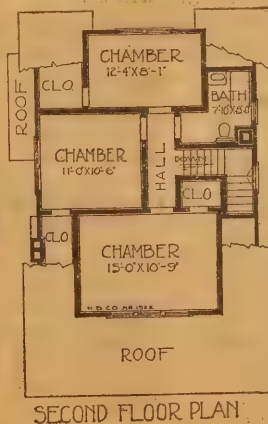
Harris Home No. E-1522

Size 25 ft. 6 in. x 29 ft. 4 in. 6 Rooms
Inclusive of Bay and Bath

PRICE
\$2391

THIS popular addition to the aristocratic "family" of Harris Homes, with its elegant exterior and room arrangement, was designed on account of the many requests for a larger home of the bungalow type. The broad sweeping lines of the true bungalow have been preserved by extending the roof out over the porch. Two well placed dormers at both front and rear, designed in careful detail and perfect harmony, add greatly to the general appearance and roominess of the interior. These dormers enable us to design square ceilings in all of the rooms on the second floor.

All rooms are of excellent proportion. At one end of the living room there is a large "cheery" fireplace. Just enough of the handsome stairway shows at the other end of the living room to break the long line, adding a decorative and desirable feature. Note the well planned bay in the dining room with its many windows. The kitchen is planned for convenient access to all rooms, basement, side grade door and rear of the house.



On the second floor there are three large bedrooms and closets. The bathroom is conveniently reached from any part of the house and is placed over the kitchen for economy in the installation of plumbing. The interior trim and mill work is modern and up-to-date style. Get the complete plans and all details of our liberal offer as explained in preceding pages.



Harris Home No. E-1526

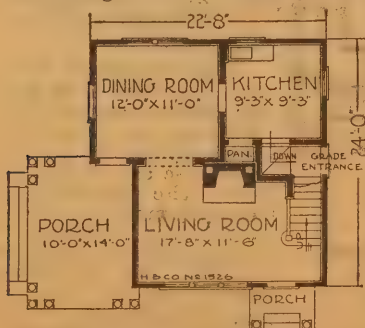
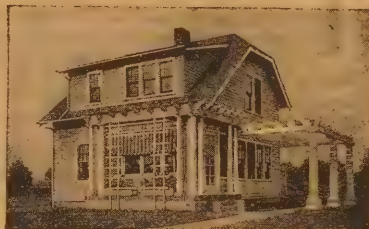
The Size
22 ft. 8 in. x 24 ft.

6 Rooms
and Bath

PRICE
\$1736

THIS attractive Colonial will please you! The insert shows this home erected at Hollis, L. I., New York. You will note that this home has really two fronts. It looks just as well either way and the size of the lot usually determines the position in which it is placed.

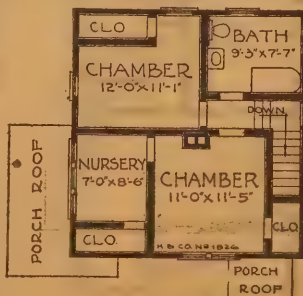
The insert shows the pergola enlarged with the triple living room window changed to a quadruple, with door omitted and dining room entrance changed to living room. These alterations as well as glass enclosure for front porch



FIRST FLOOR PLAN

can be made very economically. Write us your requirements today.

The well arranged floor plan needs no further comment. However we do want to call your attention to the nursery on second floor which can also be used as an all year sleeping porch.



SECOND FLOOR PLAN



Harris Home No. E-2000

The Size
28 ft. x 28 ft.

8 Rooms
and Bath

PRICE
\$2598

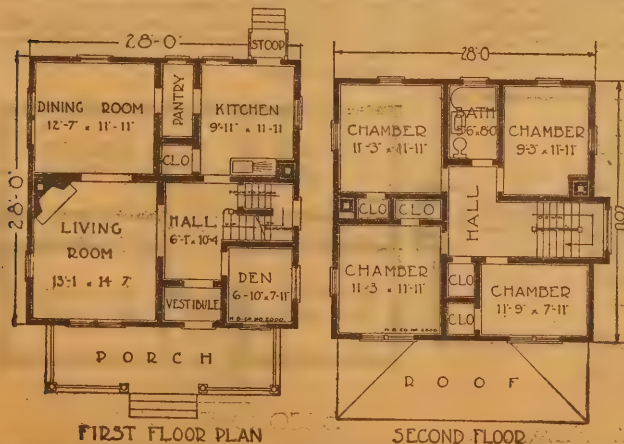
THE most striking impression you receive in a passing glance at this Harris Home is the perfect balance and trim appearance, as one man said: "It's good to look at but better to live in."

Here is a modern home with character where both the quality and interior arrangement, at their best, are strongly represented. Add to this splendid array of features the economical advantages of "The Harris Way" Improved Ready Cut system where no material, time or labor is wasted. You will then understand why this home is so popular. Comfort, convenience and health have been the aim of our designers. The windows are many and properly situated to give an abundance of light and ventilation.

Utmost care has been exercised in this home, as in all Harris Homes, to avoid all impractical expensive construction. As a result these homes are offered at unapproached prices. Special attention is called to the convenience of the ascent to

the second floor—notice the main stairway is reached from the front hall or kitchen. Another important advantage in this home is the proper arrangement of the rooms for economical plumbing and heating plant installation.

All complete details of construction and the material going into this Harris Home can be had by taking advantage of our liberal offer of Free Plans as outlined in the preceding pages of this book.





Harris Home No. E-2002

The Size
34 ft. x 22 ft.

7 Rooms
and Bath

PRICE
\$2539

HERE is a superior type of modern colonial home—just the right size—not too large and not too small. Can be economically built and maintained after it is built, a point that is generally overlooked or found out when it is too late. This design will stand out boldly no matter where built, bespeaking solidity, comfort and convenience, rather than the gaudiness and show, at the expense of the former.

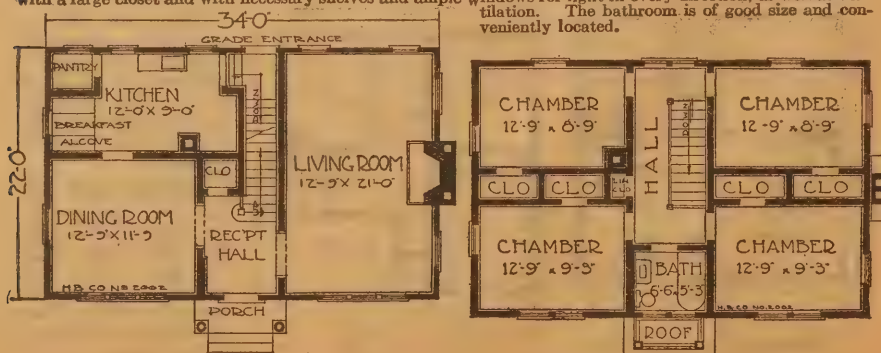
Massive columns supporting the entrance porch, give a splendid first impression of the good things that are to follow.

The reception hall is large, has a good sized clothes closet and just enough of the stairway is open to break the monotony.

We pass through a handsome pair of French doors into the living room, with its cheerful fireplace, with space galore for furniture, piano, victrola, bookcases, and other furnishings that go to give a room a homelike appearance.

Exit to the rear is made from the kitchen through the grade entrance or to the basement stairs. The dining room is also separated from the reception hall by a pair of French doors and a double action door separates this room from the kitchen. The kitchen is laid out for every convenience.

Upstairs we find four large bedrooms, all directly connected to a central hall, each with a large closet and with necessary shelves and ample windows for light in every direction, as well as ventilation. The bathroom is of good size and conveniently located.





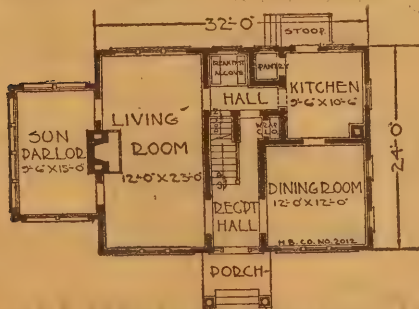
Harris Home No. E-2012

The Size 24 ft. x 32 ft. 6 Rooms, Bath and Sun Parlor

PRICE
\$2995

A DUTCH Colonial Home has many advantages over other types of houses both in appearance and available room space. Here is a truly typical one emphasizing all the lines which make these houses so attractive.

One of the most attractive features of this home is the generous sun parlor with its many French windows. It will be the gathering place of the family, warm and sunny in the cold winter days and yet open to the cool breezes in the summer. Also the cozy breakfast nook so necessary for modern convenience. All second-floor rooms have square ceilings. The lot should be 50 ft. wide. For west frontage, order house reversed.



FIRST FLOOR PLAN

We have also planned the second floor of this home with four chambers and two baths. Ask for plan No. B-2012B.



SECOND FLOOR PLAN

ECONOMY

HARRIS



HOUSES

FOR HOME BUILDERS WITH LIMITED MEANS
SOUND CONSTRUCTION—GOOD MATERIALS—DOUBLE WALLS AND FLOORS—
READY CUT—A PERFECT FIT GUARANTEED

General Specifications

In every paragraph of the following specification you will note that great care has been taken in planning for strength and long life in the construction of your home.

You get this information *before you buy*; so there is no possible chance for you to be deceived. You can check up to the very last nail, what goes into your house, as our catalog numbers are given on the material list, and there is nothing left to *imagination or guess work*. This method is far superior and safer for you than a lengthy book specification without proper material catalog to check up with.

Foundation Heavy cedar posts and No. 1 long leaf Yellow Pine sills and girders halved at all joints; accurately cut and fitted ready to nail together. All ample sizes to hold strains and loads in accordance with best standards and good practice.

Joists All floor joists 2x8 No. 1 long leaf Yellow Pine, framed, dressed and cut to fit.

Finish Flooring Flooring furnished absolutely clear grade, tongued and grooved, has a beautiful grain perfectly smooth and guaranteed to give a good job. Inch thick.

Sub-Flooring Sound inch lumber dressed.

Studding Size 2x4, framed, dressed, cut to fit and all spaced 16 inches on centers or 14½ inches apart. All window and door stud openings accurately framed, marked and bundled. (An exclusive Harris System.)

Wall Sheathing Sound inch lumber, dressed.

Rafters Size 2x4, notched, mitred, beveled and accurately framed. All dressed strictly No. 1 long leaf Yellow Pine. A perfect fit guaranteed.

Roof Sheathing Sound inch lumber dressed and matched.

Building Paper Heavy Slater's tarred felt between double floors and double walls.

Side Walls Clear siding. Free from knots or defects. Your choice of spruce or redwood. Either 4 or 6 inch widths. Guaranteed to hold paint perfectly. If red cedar shingles are preferred for outside walls or a combination of shingles and siding, materials will be furnished accordingly without extra charge.

Outside Finish All absolutely clear, fir surfaced. Porch columns, guaranteed lock joints, outside mouldings, clear fir or white pine.

Window and Door Frames Absolutely clear fir 1½ inch casings, 1½ inch sills, finest stock, beautifully machined and finished.

Window Sash Finest clear white pine, all sanded and finished with exceptional care. 1½ inch thick check rail. No better windows can be obtained. Window glass all ready in place, tacked and puttied.

Roofing We furnish the best Slate Surfaced Roofing that money can buy. Colors red, green or the new shade blue-black.

Doors Bungalow front doors. Rear doors half glass, clear, solid white pine or fir. Two-panel clear fir inside doors, selected especially for beautiful grain and finish. Doors mortised for locks.

Interior Woodwork Base, jambs, casing, stool, apron, picture moulding, absolutely clear Yellow Pine or fir. Selected especially for beautiful grain, all flat surfaces sanded smoothly.

Plasterboard ¾ inch thick "Smoothwall" plasterboard furnished in wide sheets, running from floor to ceiling. With joint filler.

Hardware Operating hardware of excellent quality complete, such as locks, hinges, lifts, sash weights and cord.

Nails Nails of all sizes furnished.

Paints Guaranteed lead and oil ready-mixed house paint for all outside walls, trim, sash and porch work, two coats. Where wall shingles are ordered we furnish Creosote Shingle Stain for double brush coats. Send for color card.

Stains and Varnishes Best quality stains and varnishes furnished for all interior floors, doors and trim. Your choice of colors.

 **These Are Regular Carpenter-Built Homes!**

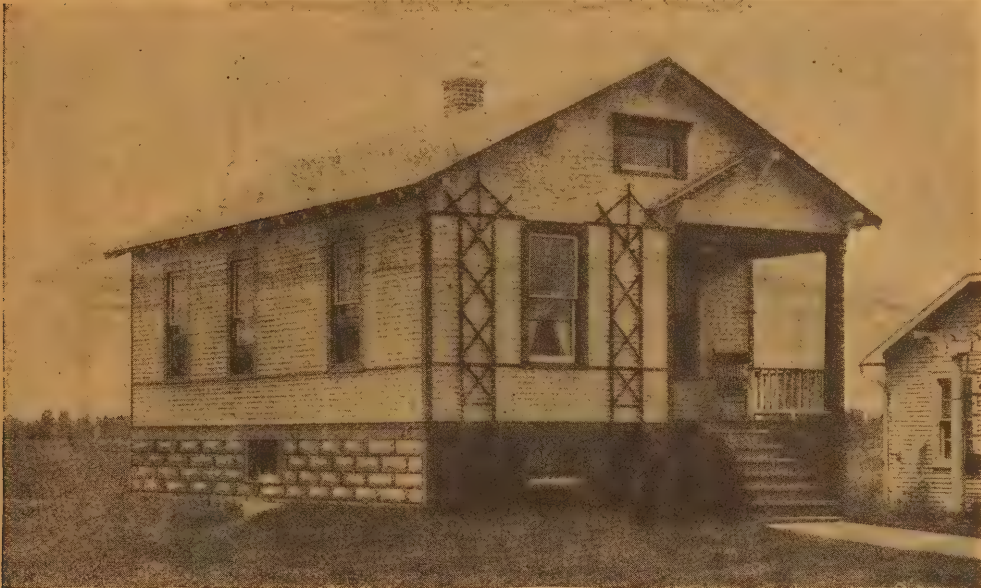
ECONOMY

HARRIS

HOUSES



FOR HOME BUILDERS WITH LIMITED MEANS
SOUND CONSTRUCTION—GOOD MATERIALS—DOUBLE WALLS AND FLOORS—
READY CUT—A PERFECT FIT GUARANTEED

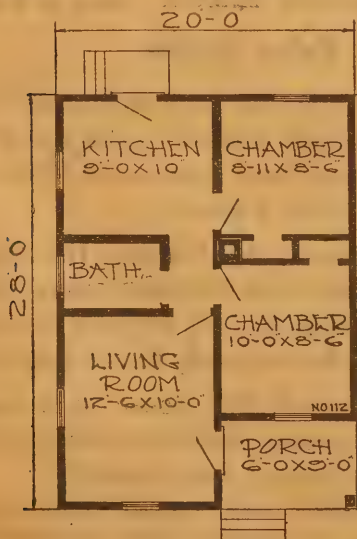


The Size
20 ft. x 28 ft.

No. E112

4 Rooms
Bath and Closets

Price **\$781**



SEE FLOOR PLAN
 ANY PLAN REVERSED WITHOUT
 EXTRA CHARGE

THE best bargain ever offered in a 4 room house! All material including Cedar foundation posts to complete this home including plaster-board, roofing and to the minutest detail, such as coat and hat hooks, etc., all furnished in guaranteed quantities. Exceptionally high quality throughout.

Two carpenters can assemble the accurately cut material we furnish according to our free plans in 3 weeks' time.

We will furnish this home in 5 room plan without bath or closets without any additional charge.

ECONOMY

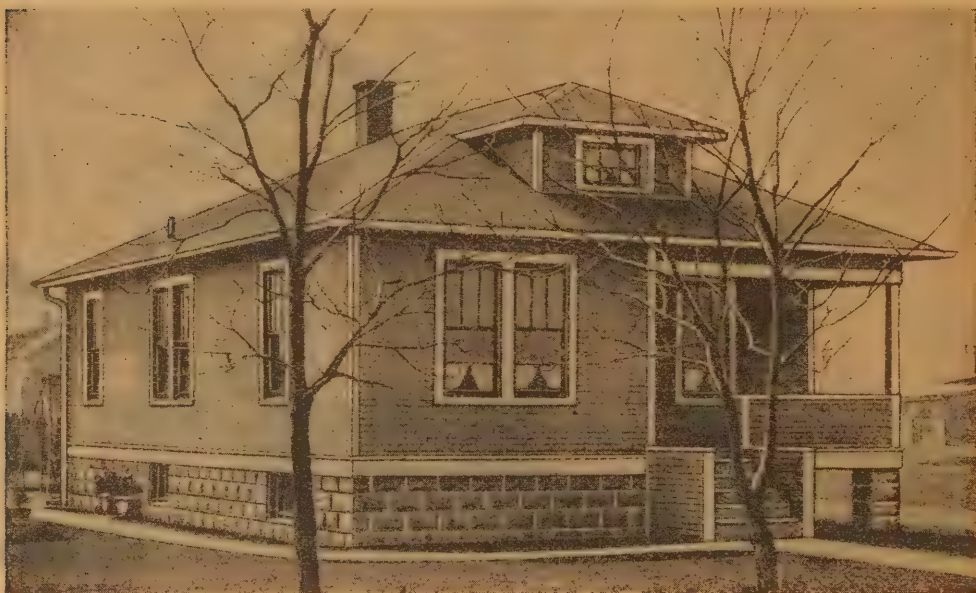
HARRIS

HOUSES



FOR HOME BUILDERS WITH LIMITED MEANS

SOUND CONSTRUCTION—GOOD MATERIALS—DOUBLE WALLS AND FLOORS—
READY CUT—A PERFECT FIT GUARANTEED



The Size
24 ft. x 36 ft.

ECONOMY HOUSE E104

5 Rooms
Bath & Pantry

Price \$1066



YOU can build this modern bungalow at a surprisingly low cost—yes and even during your leisure moments if you are determined to own a home.

We furnish every needed item (including foundation posts with 6x6 sills) clear up to the ridge of the roof. All framing material accurately cut to size ready to nail together.

We also furnish this house in 6 room plan without pantry, bath or closets at the same price as 5 room plan above.

Picture above shows cement block foundation. You can do the same; get particulars and plans today. See Free Plan Offer Page 100.

HARRIS

PATENTED

"CELLU-SEAL" INSULATOR LINED

"UNIT MADE"

PERMANENT

BUNGALOWS—LAKESIDE COTTAGES

and

BUILDINGS FOR ALL PURPOSES

These Buildings are not to be confused with our Ready-Cut Harris Homes Beautiful. All "UNIT MADE" Buildings are completely manufactured in sections at our factory in Chicago and can be assembled on the ground in quick time by inexperienced workmen.

There are practically no limitations for which these buildings may be used, but the main purposes for which they were designed are briefly summarized as follows:

No. 1—For the man who intends building a home, but is unable to build the more elaborate type of house. He will find these buildings will make a comfortable, attractive, well-built and practical home in every respect.

No. 2—For the man in an out-of-way locality, where it is difficult to secure material and skilled building tradesmen. He will find that these buildings will solve the problem. A complete house can be loaded on trucks, delivered to destination and erected in many cases not longer than three or four days.

No. 3—For the man who is building a Lakeside Cottage. He will find that a HARRIS "CELLU-SEAL" LINED Cottage can be erected by himself with the aid of a few friends over a week-end. He can avoid the usual delays and expense connected with buying lumber, engaging carpenters, painters and other workmen to complete his cottages.

No. 4—For the man who intends building a garage, we can only say that there are more than 10,000 of these Unit Made "CELLU-SEAL" Garages in the Chicago District alone. This should be sufficient evidence that these buildings are practical, durable, attractive and above all, lowest in prices. Our success is due to our policy of using first-class material thru-out, exceptionally strong methods of construction and many tested patented features of construction, enabling customers to erect their own Garages in a quick and satisfactory manner.

If you are interested in any one of the purposes for which these Buildings have been designed, you should, by all means, read over carefully the following pages which are devoted to these Buildings. We show in detail how these buildings are constructed and the kind of material used.

On the following pages we print much evidence of satisfaction from customers who purchased such Buildings.

THESE COTTAGES HAVE BEEN ERECTED IN THE COLDEST CLIMATES
SELECT THE TYPE OF OUTSIDE WALL FROM BELOW—SEE NEXT PAGE FOR INSIDE WALLS

OUTSIDE WALLS



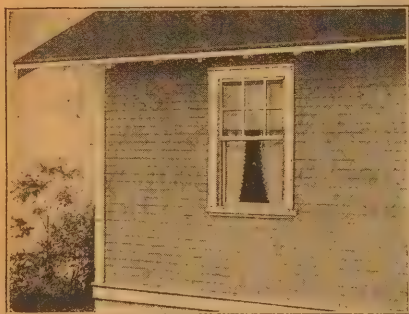
NO. 1 OUTSIDE WALL—VERTICAL BEADED SIDING



No. 1 OUTSIDE WALL: This style of wall is known as "Single Wall" and is usually ordered for Lakeside Cottages—it is "Cellu-Seal" insulator lined. The sections are made up with our regular siding nailed vertically to the framework of the sections. All the framework is planed smoothly so as to give a neat interior appearance. "Cellu-Seal" not included when this wall is used with an inside wall.

The partitions on cottages ordered as above are single wall, that is, one side of the framework only is covered. Interior trim is already applied around the doors and windows with a $\frac{3}{4}$ " space allowed behind the trim for future interior wall. Ceiling panels are not included in any "single wall" type of house—they can be ordered extra, irrespective of the inside walls.

For styles of Inside Walls—see next page.



NO. 2 OUTSIDE WALL—DROP SIDING

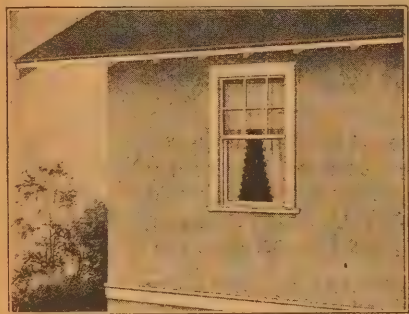


No. 2 OUTSIDE WALL: An inside wall *must* be ordered with this style of Outside Wall. In ordering No. 2 Outside Wall, the sections are made up with whatever type of inside wall you select, already applied to the framework by us. This type of outside wall consists of "Drop" Siding, also known as "Novelty" Siding, Pattern No. 106 or No. 117; to be applied on the job. "Cellu-Seal" not included.

The drop siding is not nailed to the exterior of the sections by us (this would necessitate cutting all to 4 foot lengths and show joints and ugly batten stripes as in most other styles of sectional houses) but is furnished in long lengths including building paper and nails, and is to be applied on the job.

A house with this type of outside wall looks just like a regular built house. The siding running in continuous lengths ties the walls together even more and eliminates joints on the outside wall. "No-Joints Showing" is an exclusive feature in our buildings.

For styles of Inside Walls—see next page.



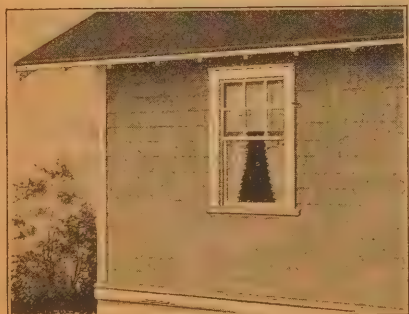
NO. 3 OUTSIDE WALL—STUCCO LATH



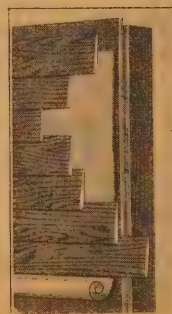
No. 3 OUTSIDE WALL: This wall consists of "Byrkit's" Patent Grooved Sheathing Lath for stucco, nailed on the sections here at the factory. Our price does not include stucco material as this is an extra on which we will gladly quote. No. 3 wall can be ordered without any inside wall.

When Inside Wall finish is ordered, the sections furnished are made up with whatever kind of Inside Wall finish you select and openings are left in the outside wall to insert bolts so as to bolt the sections together. "Cellu-Seal" insulator lining is not included. Long lengths of the Byrkit's stucco lath is furnished to fill these openings to further tie the wall together, also to break joints, reducing any chance of cracking the stucco.

For styles of Inside Walls—see next page.



NO. 4 OUTSIDE WALL—BEVELED SIDING OVER NO. 1 OUTSIDE WALL



No. 4 OUTSIDE WALL: This wall is the same as No. 1 Wall and in addition thereto we furnish building paper and Clear "Beveled" Siding (sometimes called "Weather-boarding") for the exterior, which is to be nailed on after the sections are bolted together. In extreme cold climates and when there is a preference for this style of siding, this wall is very desirable and, of course, does away entirely with the appearance of the building at any time having been sectional. "Cellu-Seal" not necessary or included.

We can also furnish Colonial Siding or Shingles in place of the beveled siding. Write for prices.

For styles of Inside Walls—see next page.

THREE TYPES OF PRACTICAL INSIDE WALL FINISHES

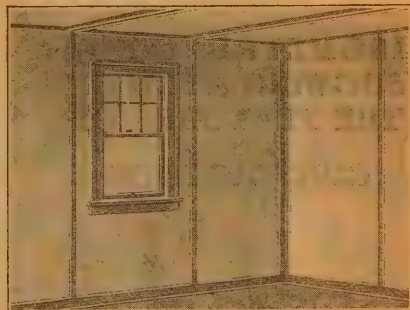
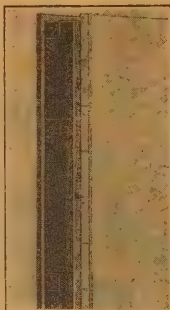
INSIDE WALL FINISH WHEN ORDERED IS APPLIED TO THE SECTION BY US BEFORE LEAVING FACTORY

INSIDE WALLS

STYLE "A" INSIDE WALL: This is a reinforced-with-wood wallboard inside wall finish, exclusively introduced by us. Vastly superior to anything that has yet been offered and is usually ordered by our customers.

The inside of the framework of the sections is first covered with wood sheathing, half thickness, and over this is nailed best quality heavy grade wallboard, Standard make. By our first applying wood sheathing to back up this wallboard, we entirely do away with the usual objection to wallboard, on account of danger of breakage from kicks and rough handling. You can readily see that a wall of this type is much stronger than ordinary wallboard nailed directly to the studs only. There are no patch pieces used around the windows or doors, for we cut the openings out of full size sheets. Partitions are manufactured in the same manner. Ceiling panels are likewise backed, but instead of sheathing we use nailing strips spaced 12" apart to hold them in place.

For styles of Outside Walls—see opposite page.



STYLE "A" INSIDE WALL—REINFORCED WALL BOARD

STYLE "AP" INSIDE WALL: This type of wall gets away from paneling the interior walls. It consists of Standard quality Gypsum Sheet Plasterboard, $\frac{3}{8}$ " thick applied by us to the sections. Joints between sections are to be filled with crack filler furnished by us. This makes a smooth wall, better, warmer and cleaner than plaster, and can be painted, calcimined or papered. Ceiling panels are made up with wallboard same as Style "A" wall described above.

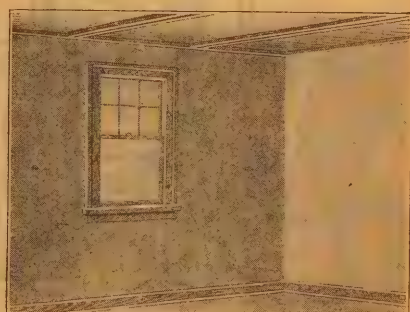
For styles of Outside Walls—see opposite page.



STYLE "AP" INSIDE WALL—PLASTER BOARD

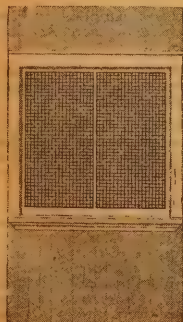
STYLE "B" INSIDE WALL: This is an all wood inside wall, which means that the inside of the outside walls, as well as on both sides of all partitions and also the ceiling panels, are finished with clear Beaded Ceiling, either Oregon Fir or Yellow Pine, our option. This type of wall is, of course, the most substantial that can be had. It will stand a lot of kicking, can be painted, calcimined or varnished in the natural and gives a very practical double wall house. It is not, however, as sanitary, or as neat a wall as Style "A" or "AP" and is of course, more expensive to decorate and has not the warmth. Ceiling panels in this case are made up of the same material as the side walls.

For styles of Outside Walls—see opposite page.



STYLE "B" INSIDE WALL—WOOD LINING

THESE ARE TYPICAL SECTIONS JUST AS THEY LEAVE THE FACTORY



Outside View
Porch Screen Section



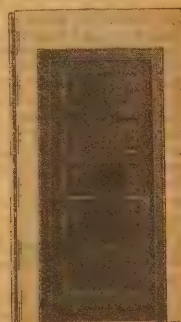
Inside View
Colonial Window Section



Inside View
French Window Section



Inside View
Front Door Section

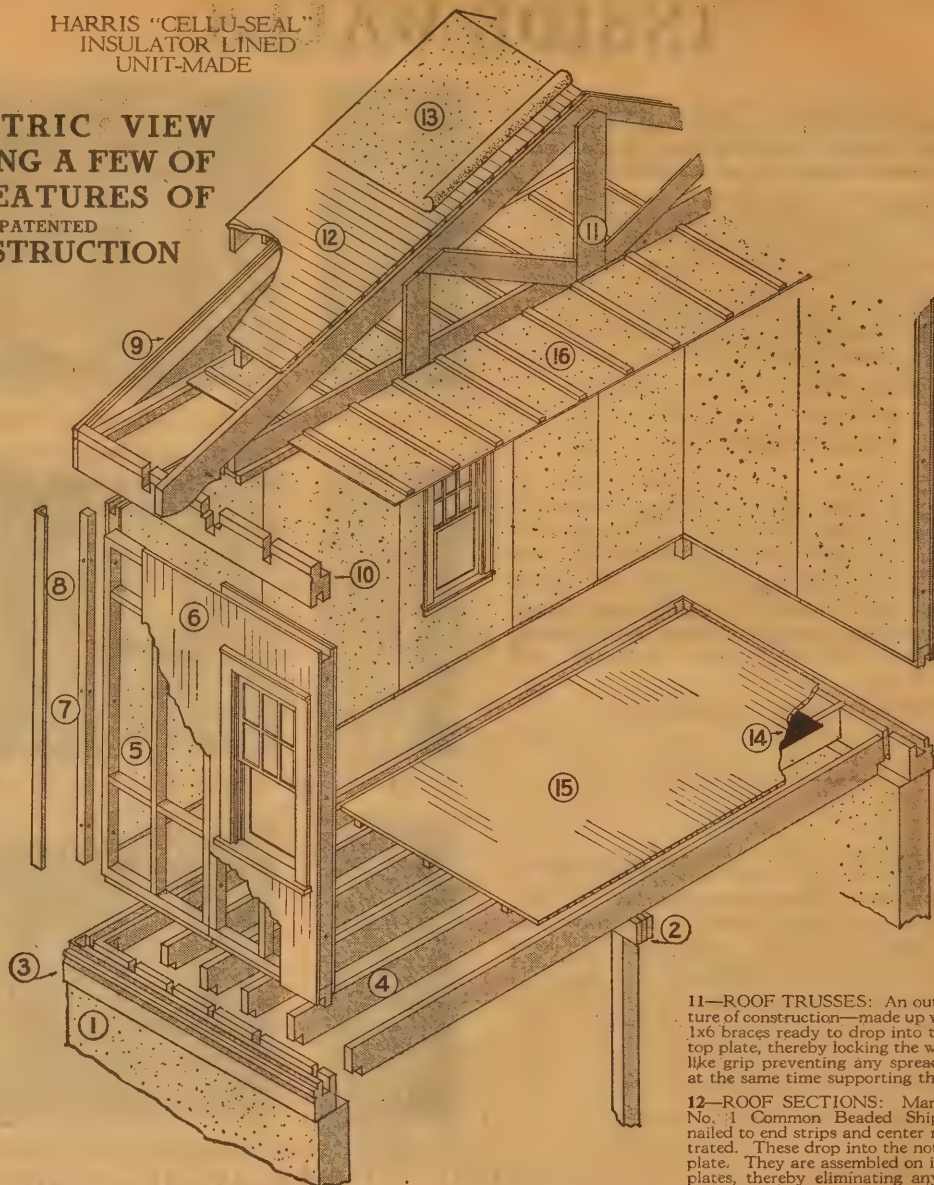


Inside View
Partition Door Section

Construction Details of Houses

HARRIS "CELLU-SEAL"
INSULATOR LINED
UNIT-MADE

ISOMETRIC VIEW SHOWING A FEW OF THE FEATURES OF PATENTED CONSTRUCTION



1—FOUNDATIONS: For Houses may be of solid concrete, stone or brick walls, or piers spaced not less than 6 ft. apart. No foundation material or girder posts included or charged for in our price.

2—CENTER GIRDER: Supporting the floor joists, built up equal to a solid timber. Supplied on all houses 16 ft. and wider.

3—WATERTIGHT SILLS: Built up equal to a 6x8 timber. Wall sections drop into groove as indicated, making it absolutely watertight.

4—FLOOR JOISTS: Are 2x8 spaced 16" on centers—fitted and notched to drop into the pockets in sills and supported by center girder. These are furnished in either full or two-piece lengths, depending upon width of building.

5—FRAMEWORK OF SECTIONS: Studding and cross braces are halved and mortised at joints giving more than necessary strength and keeping sections square and true.

6—SIDING: See following page for description of various kinds of siding furnished for the different types of outside walls. A feature of our Outside Walls is the absence of unsightly joints where sections bolt together, doing away entirely with the appearance of being sectional.

7—CORNER POSTS: When bolted to sections at corners are equivalent to a 4x5 timber. No special corner sections are necessary in our construction.

8—CORNER BOARDS: Made up ready to nail in place covering the corner post.

9—GABLE SECTION: Grooved at bottom to drop down over wall sections, locking same in place, same as No. 10.

10—TOP WALL PLATES: Built up equivalent to a 4x6 timber, grooved to drop down over siding on wall sections as indicated. It has notches to receive the patented roof truss.

11—ROOF TRUSSES: An outstanding feature of construction—made up with 2x4's and 1x6 braces ready to drop into the notches in top plate, thereby locking the walls in a vise-like grip preventing any spreading of walls, at the same time supporting the roof.

12—ROOF SECTIONS: Manufactured of No. 1 Common Beaded Shiplap Boards, nailed to end strips and center rafter as illustrated. These drop into the notch in the top plate. They are assembled on iron clad templates, thereby eliminating any variance in measurements.

13—ROOFING: Roofing supplied is Best Quality Red or Green Slate Surfaced Roofing, with cement and nails.

14—INSULATING PAPERS: The under side of all floor sections has a layer of heavy tarred felt to keep out dampness.

15—FLOOR SECTIONS: Are made up of 1x4 Clear Fir or Yellow Pine in easily handled units. An exclusive feature of construction is the absence of any joints showing in the middle of the floor.

16—CEILING PANELS: This illustrates the type of ceiling panels furnished when Style "A" or "AP" Inside Wall is ordered. Note the heavy re-inforcing of the wallboard, these strips are spaced 12" apart giving more strength than the usual manner of nailing wall board up against rafters only 16" on centers. These panels drop into place between, and rest on the beamed ceiling nailed to the bottom of each truss.

Lakeside Cottages

NOTE—All Lakeside Cottages can be made into permanent all-year-round buildings by adding any of the inside wall finish offered and explained on previous pages.



The "SHOREWOOD"

"Cellu-Seal" Insulator Lined

The "Shorewood" is the ideal cottage—economical, attractive, and simplicity itself when it comes to erection. While all "Cellu-Seal" Cottages are designed of uniform units and are easy to erect, it is hardly possible for any building to be erected easier than the "Shorewood."

A season's rent will frequently pay for its cost and the house is your own to do with as you please. Can be had in two rooms and larger, with and without porch as may be desired.

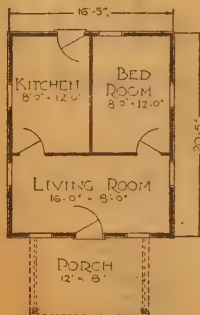
"Shorewood" Cottages are carried in stock, ready for immediate shipment with No. 1 Outside Wall, but can be had in any other style of outside and inside wall furnished. Porches, when ordered, are furnished by us all made up, ready to put together and consist of porch floor, porch roof, porch columns and guaranteed slate surfaced roofing, same as furnished for the houses.

Construction and material is identical in all Cottages, in quality, grade and manufacture. These buildings are known for their high quality material—no matter how large or small.



The "SHOREWOOD"

Plan No. 38-E-160. Size, 12'5" x 20'5".
Two Rooms.
No. 1 Outside Wall, "CELLU-SEAL"
Insulator Lined.....\$355.00
Porch, size 10'x8', extra..... 56.00



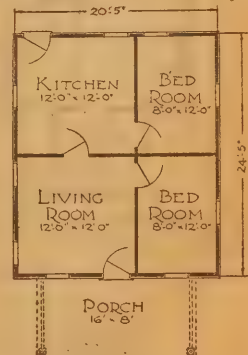
The "SHOREWOOD"

Plan No. 38-E-161. Size, 16'5" x 20'5".
Three Rooms.
No. 1 Outside Wall, "CELLU-SEAL"
Insulator Lined.....\$459.00
Porch, size 12'x8', extra..... 67.00



The "SHOREWOOD"

Plan No. 38-E-162. Size, 20'5" x 20'5".
Four Rooms.
No. 1 Outside Wall, "CELLU-SEAL"
Insulator Lined.....\$540.00
Porch, size 16'x8', extra..... 89.00



The "SHOREWOOD"

Plan No. 38-E-163. Size, 20'5" x 24'5".
Four Rooms.
No. 1 Outside Wall, "CELLU-SEAL"
Insulator Lined.....\$615.00
Porch, size 16'x8', extra..... 89.00

Harris "Cellu-Seal" INSULATOR LINED UNIT MADE Permanent Bungalows



The "BERKLEY"

Here is a truly charming California Bungalow and not only does this apply to the exterior but the floor plans as well—a point frequently lacking in the average bungalow.

Here are plans of five room houses with good size bath, cabinet in Dining Room of the larger house, and two large closets in each house, large enough to be used as dressing closets. The wide eaved opening between the Dining Room and Living Room permits these two rooms to be used practically as one and gives a stretch of floor space 20 feet long.

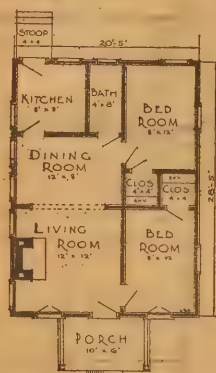
The front view with its handsome, bungalow door, Canopy Porch. Roof, supported by massive brackets, flower box, and shutters on the

casement sash, all add to the attractive appearance of the house.

The exterior of this house is shown with shingles which can be furnished instead of the beveled siding specified for No. 4 outside wall.

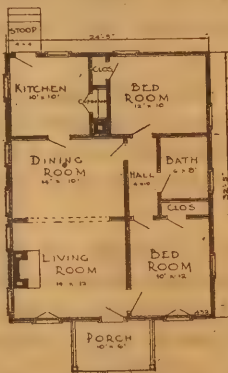
This is a simple house to erect. The sections go together easily as do all our unit made houses, the absence of complicated interior and porch arrangement simplifies the matter still more. Three men should have no difficulty in erecting this design above the foundation in four days.

Price includes wood porch floor and bulkhead rail as shown. Also rear stoop and hood included in our price.



The "BERKLEY"

Plan No. **38-E-430**. Size 20'5" x 28'5".
Five Rooms, Bath, Closets, Front Porch,
Rear Stoop and Hood.



The "BERKLEY"

Plan No. **38-E-432**. Size 24'5" x 28'5".
Five Rooms, Bath, Closets, Cupboard, Front
Porch. Rear Stoop and Hood.



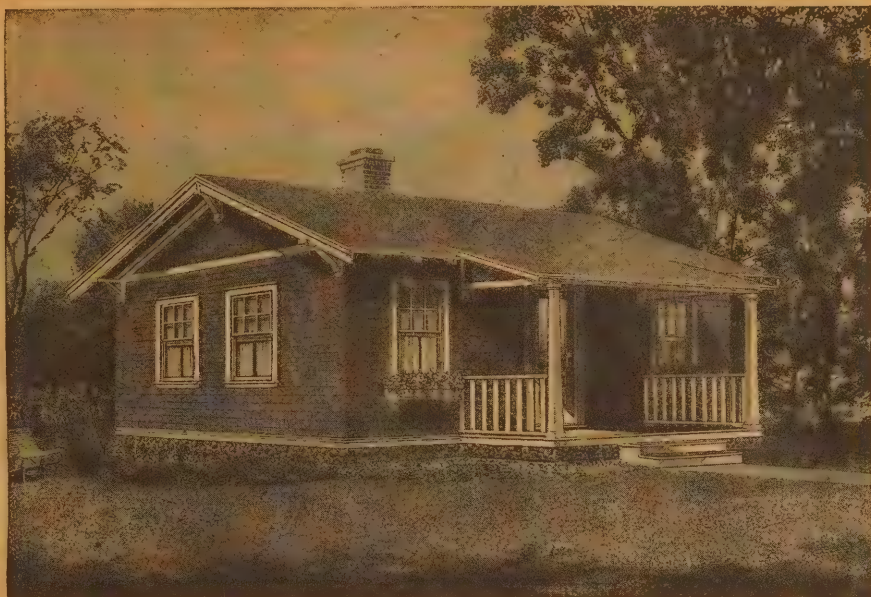
The "BERKLEY"

Plan No. **38-E-433**. Size 22'5" x 30'5".
Five Rooms, Bath, Closets, Front Porch,
Rear Stoop and Hood.

	Plan No. 38-E-430	Plan No. 38-E-432	Plan No. 38-E-433
No. 1 Outside Wall, "Cellu-Seal" Insulator Lined....	\$ 798.00	\$1011.00	\$ 885.00
No. 2 Outside Wall.....	814.00	1031.00	903.00
No. 3 Outside Wall.....	774.00	980.00	859.00
No. 4 Outside Wall.....	888.00	1117.00	965.00
Add extra for Inside Walls:			
Style "A" Inside Wall.....	\$ 179.00	\$ 231.00	\$ 197.00
Style "AP" Inside Wall.....	165.00	208.00	183.00
Style "B" Inside Wall.....	215.00	282.00	241.00

For detailed description of Wall Finishes; see preceding pages.

Harris "Cellu-Seal" INSULATOR LINED UNIT MADE Permanent Bungalows



The "WINONA"

For needs of industrial corporations who provide better homes for their employees we have developed the cottages shown on this page. Of course, any design shown in this booklet is adaptable for the same purpose, but these cottages are planned for economy, not only in the original cost of the building but in the assembling.

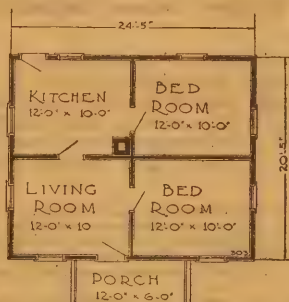
For example—Plan No. 302, three room cottage, can be erected by three inexperienced workmen in two days. Just think of the saving.

These Industrial Cottages have been purchased in large quantities by such well-known companies as the Illinois Steel Co. Universal Portland Cement Co. The Steel and Tube Co. of America. Wayne Coal Co. The Short Creek Coal Co.

Many different types of wall finishes can be used—for Industrial Cottages the combination of No. 1 Outside Wall and Style "A" or "B" Inside Wall will withstand the roughest handling.



The "WINONA"
Plan No. 38-E-302. Size 24'5" x 16'5".
Three Rooms, Porch 12'x6'.



The "WINONA"
Plan No. 38-E-303. Size 24'5" x 20'5".
Four Rooms, Porch 12'x6'.



The "WINONA"
Plan No. 38-E-304. Size 26'5" x 24'5".
Four Rooms, Closets and Cupboard, Porch 12'x6'.

	Plan No. 38-E-302	Plan No. 38-E-303	Plan No. 38-E-304
No. 1 Outside Wall, "Cellu-Seal" Insulator Lined.....	\$554.00	\$650.00	\$801.00
No. 2 Outside Wall.....	565.00	663.00	817.00
No. 3 Outside Wall.....	537.00	631.00	777.00
No. 4 Outside Wall.....	626.00	731.00	899.00
Add extra for Inside Walls:			
Style "A" Inside Wall.....	\$117.00	\$142.00	\$186.00
Style "AP" Inside Wall.....	109.00	130.00	166.00
Style "B" Inside Wall.....	144.00	178.00	241.00

For detailed description of Wall Finishes, see preceding pages.

Harris "Cellu-Seal" INSULATOR LINED UNIT MADE Permanent Bungalows



The "MEDFORD"



A Portion of a Row of "Medford" Houses Erected by an Ohio Coal Co.



The "MEDFORD"

Plan No. **38-E-500**. Size 24'5"x28'5".
Five Rooms, Bath, Closets, Cabinet.
Front Porch—20'x8'.
Rear Porch—8'x4'.

Although the "Medford" was specially designed for the needs of large, up-to-date industrial corporations who provide better class of homes for their men, it will make an ideal farm house, also an ideal suburban home. A modern, roomy and attractive semi-bungalow type of cottage. It is truly "The Wonder Building of the Age."

It has been sold throughout the southern part of the country to oil operators, who have erected them on their leases and realized the advantage of a high quality house that can be taken down and moved to new locations. Note the illustration of a row of "Medford" Houses erected by a well-known Ohio Coal Company.

The front porch can easily be screened and makes an ideal dining porch or sleeping room. The merits of the floor plan need not be described. One can see at a glance the practical arrangements of rooms, without any waste of space.

	Plan No. 38-E-500	Plan No. 38-E-501
No. 1 Outside Wall, "Cellu-Seal"		
Insulator Lined.....	\$ 989.00	\$1005.00
No. 2 Outside Wall.....	1009.00	1025.00
No. 3 Outside Wall.....	959.00	975.00
No. 4 Outside Wall.....	1085.00	1104.00

Add extra for Inside Walls:

Style "A" Inside Wall.....	\$ 204.00	\$ 207.00
Style "AP" Inside Wall.....	184.00	192.00
Style "B" Inside Wall.....	250.00	254.00

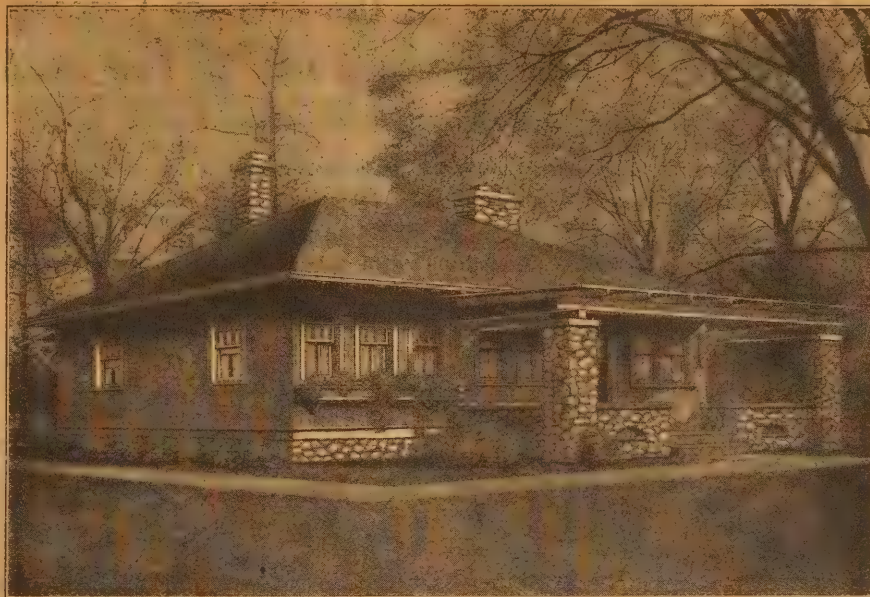
For detailed description of Wall Finishes see preceding pages.



The "MEDFORD"

Plan No. **38-E-501**. Size 24'5"x30'5".
Five Rooms, Bath, Closets
Front Porch, 20'x8'.
Rear Porch—8'x4'.

Harris "Cellu-Seal" INSULATOR LINED UNIT MADE Permanent Bungalows



The "ORLEANS"

You will marvel at this being a Sectional House. This hip-roof Bungalow is built under our unit made system and in addition to the regular hip-roof construction, used on an ordinary house, such as built under old methods, it has the patented Notch-Lock trusses that support the roof so strongly that it cannot sag with the heaviest snow load.

The porch and foundation, if a foundation is to be built, are intended to be of native stone, and if this is available it should be used so that the finished house will be just like the picture. Our price does not include cement porch floor or stone columns as illustrated. To add to the attractiveness of the bungalow these should be built. However, we can furnish wooden floor sections, columns, and railing at an extra cost. Rear stoop and hood, 4 feet square, is included in the price.

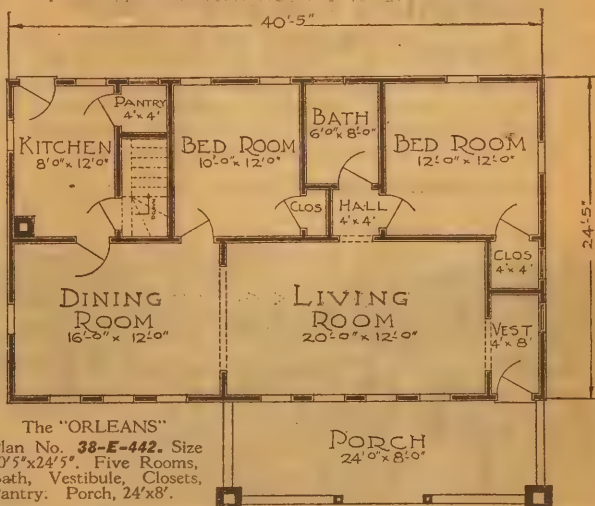
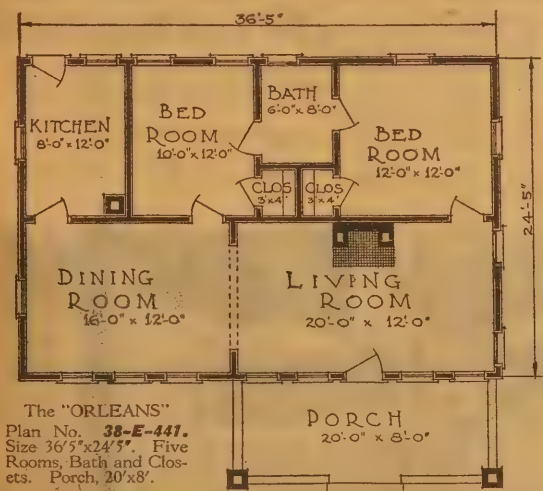
The floor plans are fine—large living room, dining room, pantry, kitchen, bathroom and two bedrooms. This ought to be Mrs. Newlywed's heart's desire, even if there are only sufficient funds on hand to

order it in No. 1 outside wall. Improvements can always be made later when time and money are more plentiful.

This house should be ready to move into in four or five days after you receive the material if you have three men of good, ordinary intelligence to do the work.

Can't you imagine how easy it is to screen in this porch and what a comfortable place to spend time outdoors? On No. 442 two 8'x8' square wooden columns are supplied to hold up the porch beam. Material for inside cellar stairs on plan 442, consisting of stair stringers cut, step treads cut, but to be nailed together on the job is included in our price. 4'x4' rear stoop and hood as shown on the illustration is included in both plans.

Hip Roofs with "Notch-Lock" trusses are much superior to ordinary hip-roof construction.



	Plan No. 38-E-441	Plan No. 38-E-442
No 1 Outside Wall, "Cellu-Seal" Insulator Lined.....	\$1077.00	\$1236.00
No. 2 Outside Wall.....	1088.00	1251.00
No. 3 Outside Wall.....	1035.00	1199.00
No. 4 Outside Wall.....	1161.00	1337.00
Add extra for Inside Walls:		
Style "A" Inside Wall.....	\$ 252.00	\$ 271.00
Style "AP" Inside Wall.....	236.00	249.00
Style "B" Inside Wall.....	308.00	335.00

For detailed description of Wall Finishes, see preceding pages.

Many Reasons Why Harris "CELLU-SEAL" Garages Are in Use by Over 10,000 Persons in the City of Chicago Alone

Why You Should Own Your Own—50 to 500% on Your Investment

IF THE President of your Bank said, "Mr. Jones, you have been a good customer and I have decided to let you in on something good, guaranteed to net you 15 to 20% on your investment," would you invest? The chances are ninety-nine out of a hundred you would.

Our price on an average size first class Garage is about \$150.00. If your garage rent is as low as only \$6.25 per month, it is costing you \$75.00 per year. If you purchase a Harris "CELLU-SEAL" Garage you earn this \$75.00 the first year, therefore, make 50%. At the end of your second year your original investment is paid out and at the end of ten years your investment has earned 500%.

In addition thereto you avoid the nuisance of going to and from a public garage, damaged fenders, petty pilfering, and joy riding your machine is subject to when out of your hands—to say nothing of the decreased cost in the upkeep of your car because it will be handy to you so you can take better care of it yourself.

INVEST TODAY Enjoy the great comforts of owning your own garage in addition to getting these big returns on your investment.

LOWEST PRICES

EASIEST TO ERECT

The Reason: To build a garage of the same size and style as our "CELLU-SEAL" Insulator Lined Garage with as good material and as strong construction by the slow hand method would cost easily double the amount. Harris "CELLU-SEAL" Garages are machine and template made, all work is done on "forms" that permit no error in measurements, practically no waste in material, and top speed in production. Nearly 90% of the work is machine work—electrical driven saws—mortisers—borers—screw drivers—gang drills, and a multitude of other new and improved labor-saving methods.

The Reason: Over 5,000 Harris "CELLU-SEAL" Garages stand erected in the City of Chicago alone. A garage may seem ever so cheap, if you spend what you saved in purchase price, in the cost of erecting same, you have not gained anything.

In designing Harris "CELLU-SEAL" Garages, better material and heavier construction than actually necessary has been specified in many instances, so as to make it easier for the purchaser to erect. You can hardly go wrong unless you are wilfully careless. It is practically impossible to proceed in a wrong manner, because of the "fool-proof" method in which the assembling has been worked out to the last detail.

You, yourself, and one or two helpers, can erect an average size garage in five or six hours, figuring, of course, everything above the foundation. It has been done, hundreds of times. Complete, simple and easily understood plans are furnished with every order.

ATTRACTIVENESS

The Reason: Harris "CELLU-SEAL" Garages are manufactured to harmonize with various types of architecture. Attractive because designed in proper proportions, with sufficient ornamentation so as not to be "frilly" and yet far above the common-place class in spite of our lower prices.

Harris "CELLU-SEAL" Patented Construction means invisible joints on the outside walls with no indication whatever of the building being sectional, all of which does not cost you any extra because it has all been taken care of in the designing.

A well constructed, good looking garage is a valuable asset and adds much to the appearance of your property.

PERMANENT CONSTRUCTION

The Reason: "That seems unnecessarily heavy," is the remark often heard. Careful study has, however, been given the required part for each and every unit, its strength, its lasting qualities, its practicability and appearance when finished. See detailed specifications on materials and construction in following pages.

IS THERE ONE GOOD REASON WHY YOU SHOULD NOT ORDER YOUR HARRIS "CELLU-SEAL" GARAGE TODAY?



A PHOTOGRAPHIC VIEW OF ONE OF OUR MANY SHOW YARDS IN CHICAGO

MAIN PLANT SHOW YARD AND SALES OFFICE

Located at our Main Plant and Factory on 35th Street, 1 block East of Ashland Ave.
Phone, Lafayette 1900.

LAWRENCE AVE. SHOW YARD AND SALES OFFICE

Located at 4032-4038 W. Lawrence Ave., corner of Keystone Ave., 1 block West of N. Crawford Ave.
Phone, Palisade 0546.

WEST SUBURBAN SHOW YARD AND SALES OFFICE

Located in River Forest, on West Madison St., one block West of Des Plaines Ave.
Phone, River Forest 2211.

NORTHWEST SIDE SHOW YARD AND SALES OFFICE

Located just West of Humboldt Park at 3607-3621 West Grand Ave., at the intersection of Division St.
Phone, Belmont 3492.

HAMMOND, IND. SHOW YARD AND SALES OFFICE

Located in Hammond, Ind., on Plummer Ave., just West of Hohman St.
Phone, Hammond 2346.

GARY, INDIANA, SHOW YARD AND SALES OFFICE

Located in Gary, Indiana, on the east side of Broadway, adjacent to the Michigan Central R. R. Depot.
Phone Gary 109

A Reproduction of the Complete and Easily Understood Plans Furnished With Every Garage

*You Can't Go Wrong. This Shows How Simple
It Is to Erect Any Harris "Cellu-Seal" Garage*

Harris "CELLU-SEAL" Garages Are Easily Erected—nearly 75% of them have been Erected by Owners

ERECTION PLAN of HARRIS "CELLU-SEAL" PATENTED UNIT MADE GARAGE

SIZE 12'6" x 18'6"
MODEL "A"

INDEX OF UNITS

NOTE: If units are used in alphabetical order, as listed below, considerable time will be saved in erecting this garage.

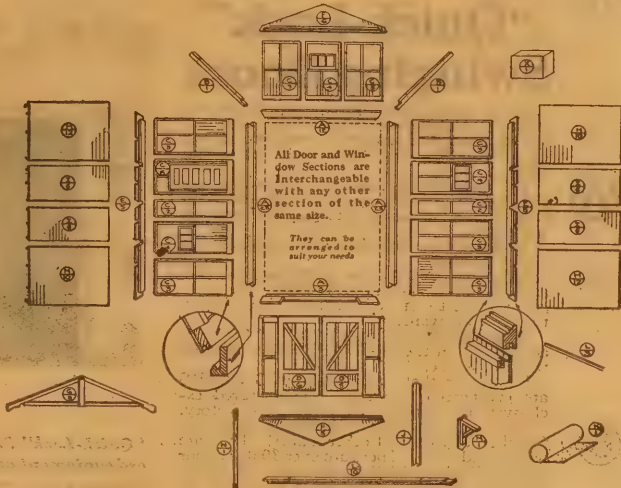
No. of Units	Unit No.	DESCRIPTION
1	X-1	Box Bolts, Foot & Chain Bolts, Nails, etc.
1	A-3	Front Sill
1	A-12	Rear Sill
2	A-23	Side Sills
2	B-1	Corner Posts
2	C-2	4 ft. Plain Wall Sections
7	C-3	4 ft. Plain Wall Sections
3	C-4	4 ft. Sash Window Sections
1	C-5	4 ft. Plain Side Door Section
1	D-5	Right Hand Garage Door Section
1	D-6	Left Hand Garage Door Section
2	E-5	Top Wall Plates
1	F-5	Front Gable
1	F-6	Rear Gable
3	G-3	Roof Trusses
2	H-10	End Roof Sections
2	H-12	End Roof Sections
4	I-4	Center Roof Sections
4	J-1	Corner Boards
4	K-1	Rolls Roofing
4	L-1	End Eave Strips
48	L-10	Side Eave Strips
6	M-1	Brackets & Backs
1 pair	N-1	Sliding—Extra—in case of damage
1 pair	N-1	"Press-Up" Door Holders

"CELLU-SEAL"
GARAGES & BUNGALOWS
PATENTED APRIL 2, 1924—SEPTEMBER 1, 1924
OTHER PATENTS PENDING
MANUFACTURED EXCLUSIVELY BY
HARRIS BROTHERS CO.
324 AND IRON STREETS
CHICAGO



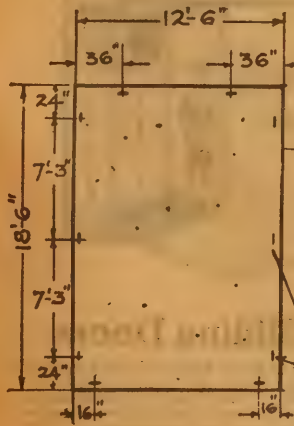
HOW TO
SQUARE
SILLS

It is easy to square sills. To square your foundation and sills, take two of the 1x3 side eave strips—tack them together to make one long stick (or a tape line will do). To square the sills, measure from "A" to "A" and "B" to "B." When these two distances are equal the sills are square.

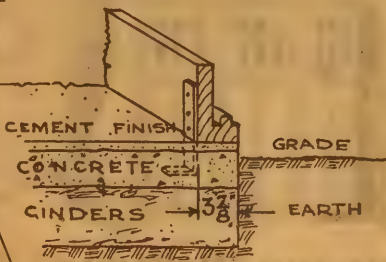


Foundation Plans for Harris "CELLU-SEAL" Garages

FURNISHED ON RECEIPT OF ORDER

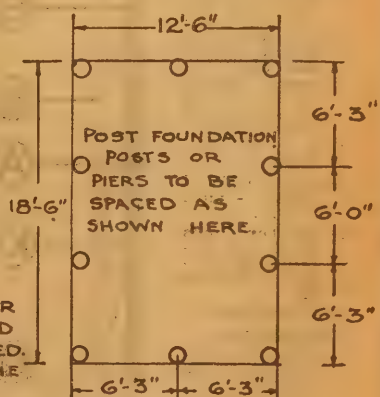


CONCRETE FLOORS



ANCHORS TO BE INSERTED INTO FLOOR 3/8" FROM OUTSIDE EDGE AND LOCATED PER PLAN—ANCHORS ARE NOT FURNISHED. THEY ARE USUALLY FURNISHED BY THE CEMENT CONTRACTOR.

POST FOUNDATIONS



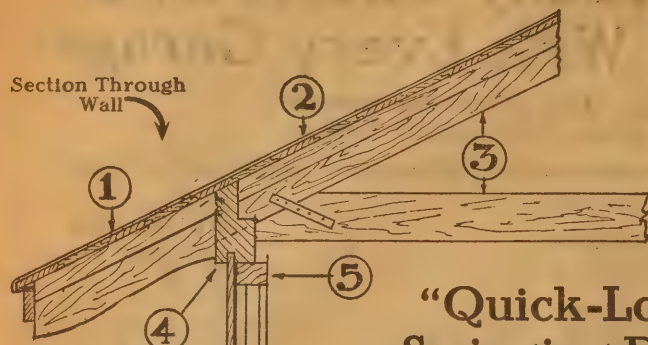
Post Foundations

IN BUILDING concrete floors, the plan shown above should be adhered to carefully. We have found the most practical and economical method of fastening the garage sills to the concrete floor is by means of iron straps, as illustrated. Be sure and see that the outside measurement of your foundation is the same size as the garage. As you will note above we are taking the 12'6"x18'6" as an example and the outside measurement of the concrete floor is also 12'6"x18'6". The iron strap anchors, if placed according to the measurements given, will come flush with the inside of the garage sills and can be spiked or fastened to the sills with lag screws.

When the garage is set on cedar posts or piers, it is recommended that 6" cedar posts be used or 6" concrete or stone piers. These piers are to be set according to the plan above. For example, on the 12'6"x18'6" building, the outside measurement of the piers should be 12'6"x18'6" and to be spaced as shown above. Sills of the garage can be spiked to the posts or anchored with iron straps. Where the ground is level it is not necessary that the posts be set more than 2 or 2 1/2 feet into the ground.

Details of Harris "Cellu-Seal" ^{Insulator Lined (PAT'D)} Garages **Something New!**

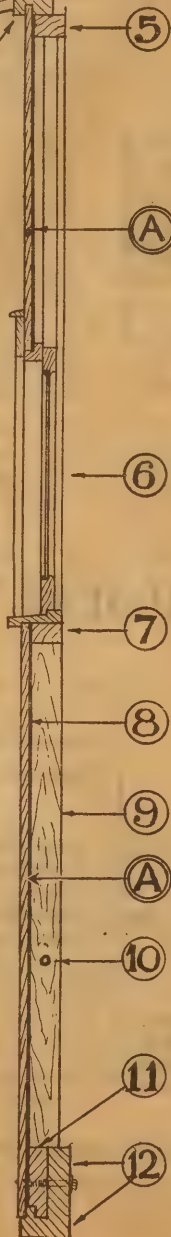
Section Through Wall



This shows a section through the wall of all Garages. This construction (pat'd Apr. 2nd, Sept. 3rd, 1918, and March 22nd, 1921; July 18th, 1922) means not only economy, but superior construction, safety and simplicity of erection.

A—"CELLU-SEAL" INSULATOR LINING. (PAT'D.) Warm in winter and cool in summer. Absolutely wind proof.

- 1—Guaranteed Roofing.
- 2—Roof Panels fit in between roof rafters.
- 3—"Notch-Lock" (Pat'd) Truss. Holds top wall plate like a vise.
- 4—Top Wall Plate grooved to drop over Side Wall Panels. Impossible for side wall to come out of alignment here.
- 5—Top Cross Brace.
- 6—Special rabbeted weather - proof window.
- 7—Center Cross Brace and One-Piece Weather-Proof Window Sill.
- 8—Outside Siding.
- 9—Upright Studs.
- 10—Bolts where sections are bolted together.
- 11-12—Bottom Cross Brace on wall panels and sill members. This is the construction of all our Garages.



"Quick-Lock" Swinging Doors

A new swinging door lock, opens with a key and locks automatically—does away with foot and chain bolts and cumbersome inside locking bar—locks tight and holds doors in perfect shape.

This new and ingenious invention is so simple and wonderful in its operation that once you have it on your garage door you will never be without it.

A simple turn of the key in the lock and you are on the inside.

When you drive out, just push the doors shut and they are locked automatically. No more going inside to let yourself out. Saves much time and annoyance.

Adjustable floor and ceiling plates allow for adjustment in the event sill becomes jammed with mud or ice.

Remember that our SWINGING DOORS are guaranteed "no sag" manufactured exclusively by us right here in our own factory. They have a diagonal countersunk brace not found on any door of other makes. They are guaranteed right. There are over 30,000 of our SWINGING DOORS in use and we highly recommend them. Our doors are made of clear kiln dried Oregon Fir lumber.

Your Choice of

"Quick-Lock" Swinging Doors
or Harris (PAT'D) **"Rollaway" Sliding Doors**



"Quick-Lock" Swinging Doors are standard equipment and will be furnished on all Garages unless you specify the "Rollaway" Sliding Doors.



Harris (PAT'D) "Rollaway" Sliding Doors

HARRIS (PAT'D) "ROLLAWAY" DOORS are the result of many years of careful study in "ROLLAWAY" SLIDING DOORS. These doors slide around the corner on the inside of the garage. One of the three doors can be used as a service door. Ninety per cent hardware is applied here at the factory, the balance anyone can apply should he decide to do his own erection.

This patented "ROLLAWAY" Sliding Door hardware is brand new, and is complete to the last detail—the doors are hung on roller bearing wheels with special cup track and curves. Roller bearing hangers run inside of this cupped track and cannot jump out.

Extra heavy combination hinges and hangers, special floor guide with wedge permitting weather tight adjustment at sill, special anti-friction roller, special cylinder two-key combination latch and lock. "Rollaway" hardware is not sold except on our Harris Patented "Cellu-Seal" Insulator lined Garages.

The left hand door, looking at the inside of the Garage (see picture above) when closed fits in a pocket making the best weather tight equipment of its kind on the market. All is easily adjusted for height, and when properly adjusted, doors can be rolled to open or close with one finger.

NOTE.—While all photo reproductions of Garages in this catalog are shown with SWINGING DOORS, remember you can have your choice of either "QUICK LOCK" Swinging Doors as mentioned above or ROLLAWAY Doors all at the same price.

Be sure and specify which you want.

SPECIFICATIONS OF MATERIAL AND CONSTRUCTION

COVERING THE MANUFACTURE OF

HARRIS "CELLU-SEAL"

PATENTED
UNIT-MADE
PERMANENT

GARAGES

"CELLU-SEAL" Insulator Lined

WE CANNOT urge you too strongly to read every word of the following specifications. It gives you a clear and complete insight into the many exceptional qualities both in material and method of construction used in the manufacture of our Patented Buildings. It is a pleasure to be able to print such excellent specifications; there is nothing to hide and many good things to show and that is why we do not hesitate to give you full information on the subject.

SPECIFICATIONS

FOUNDATION SILLS of our Garages are equivalent to practically a 4x8 timber when the wall sections are in place. They are made of strong, straight, selected No. 1 grade Southern Pine. They form a lock joint, holding the wall sections permanently in place, making it easy for one man to put the sections in place himself.

CORNER POSTS: Corner posts are interchangeable like the sections and when in place give a corner timber construction practically equivalent to a 4x5 timber. Our system eliminates special corner sections.

OUTSIDE WALLS: The outside walls consist of "sections" or panels made up in one, two and four foot widths. All wall sections are interchangeable. These "sections" or panels are made up as follows:

SIDING: Clear kiln-dried Oregon Fir Siding, tongued and grooved, beaded on the outside, and beaded or planed smoothly on the inside, applied vertically. Manufactured from three-quarter-inch stock finished five-eighths inches.

"CELLU-SEAL" LINING: Our exclusive product. "Cellu-Seal" is an insulating wallboard, consisting of two heavy layers of tough fibre paper (Mullen test 175 pounds to the square inch) with an inner layer of corrugated paper, and sealed by our own special machinery, giving thousands upon thousands of wonderful insulating dead air cells with a consequent efficient insulation against cold in winter and heat in summer. With this new type of lining a Harris "CELLU-SEAL" Garage will be warmer in severe cold weather than any single wall garage, and, of course, cooler in summer, to say nothing of the enhanced beauty in its paneled appearance. "CELLU-SEAL" Insulated Walls are absolutely wind-proof and nearly a quarter of an inch thicker than on garages prior to 1925.

STUDDING: The studding is No. 1 and better grade Southern Pine, surfaced four sides, average distance apart sixteen inches. They are used in pairs every four feet where bolted together, with an additional stud in between, making three studs to forty-eight inches of wall. The studding is two by three. Two by four is not necessary in our construction on account of the three interlocking cross braces, all of which are halved at joints, give more than the necessary strength and hold the sections square and true.

CROSS BRACES: There are two horizontal or cross braces of two by three inches which are secured to the studs at the top and center, one 2x6 at the bottom of the section, by halved joints, nailed with cement-coated nails. The inside of the panels show a neat symmetrical distribution of framing.

TOP WALL PLATES: Fir and Yellow Pine built up equivalent to practically a four by six timber. This plate has a groove in it that drops right down over the siding on the wall sections and holds it in a vise-like grip, keeping the walls in alignment.

ROOF TRUSSES: Manufactured of No. 1 and better grade Yellow Pine, two by fours with one by six scientific braces, reinforced with iron straps and made so as to form a notch-lock that drops into the top wall plate and holds the entire building in a firm grip. These patented trusses not only make a roof much superior to any other on the market, but make it a simple matter for any amateur to erect and make a good job of it.

ROOF SECTIONS: Are manufactured of No. 1 quality Southern Pine Ship Lap. Beaded on the under side to give a neat and finished appearance. Roof sections are made so they will easily drop in place between the trusses, and have additional rafters on them to add still more strength.

FRONT DOORS: "No-Sag" "QUICK-LOCK" front doors are furnished with every garage. These doors are our own exclusive design and manufactured only by us. Guaranteed not to sag. See page 176.

ROLLAWAY SLIDING DOOR: Brand new! Our own patented hardware. Best on market. They roll away—around on the inside—just out. See page 194.

SIDE DOORS: Side door, of course, comes to you already in the section with hardware all on and you can place this section wherever it is most convenient to your individual requirements. The side door is either plain or glazed, depending upon the model of the garage you purchase.

WINDOWS: The window sash as shown in Models "A" and "C" are regular three-light sash, making the entire window 34" wide by 21" high. This window slides up in a grooved slide. The bottom of the sash is specially rabbeted as is also the sill and when closed makes a dust and storm proof job. When the window is raised it rests upon a ledge provided for that purpose.

On Models "B," "E" and "G" we use our regular Harris "CELLU-SEAL" House windows, the size of which is 28"x46" overall. There are two sash to the windows, one above and one below, the one above being divided into six lights making it very attractive. Windows are equipped with special tension and anti-rattle springs, to permit raising and lowering window to any position. Sash lock and lift attached.

PAINT: Garages come to you painted, one good heavy coat of outside paint, stock color medium gray for the body, white trim and sash. Our stock color is such that it will take almost any finishing coat.

ROOFING: Roofing supplied is best quality Red or Green Slate surfaced Roofing. Guaranteed first quality standard weight and manufacture Roofing. Sufficient nails, cement and complete instructions are included with each roll, showing the proper way to apply the roofing. Individual, four-in-one Slab Shingles or roofing stamped like shingles can be had at an extra cost. Prices upon application.

HEIGHT: The height of wall to plate on all Garages is 8'.

Height overall on all models is as follows:

On Garages 9'-6" wide—height to highest point of roof, 10'-7 1/2".
On Garages 10'-6" wide—height to highest point of roof, 10'-10".
On Garages 12'-6" wide—height to highest point of roof, 11'-3 1/2".
On Garages 16'-6" wide—height to highest point of roof, 12'-2 1/2".
On Garages 18'-6" wide—height to highest point of roof, 12'-6".
On Garages 20'-6" wide—height to highest point of roof, 13'-3".

EVES OVERHANG: In figuring the amount of space overall required for a Garage, including the overhang eaves, add 3 ft. to the width of the Garage, also 3 ft. to the length. For example, a 10'6"x16'6" Garage—the space needed will, approximately, be 13'6"x19'6".

HARDWARE: The hardware we furnish, consists of the following:

CYLINDER LOCK: Genuine 3-Key YALE cylinder latch furnished for service door.

HINGES: Special fancy japanned 10" strap by 2 1/2"x7" butt, extra heavy T hinges with No. 14 japanned screws. Hinges are already applied to doors.

DOOR HOLDERS: The greatest convenience of the age. They hold the large doors in place, when open.

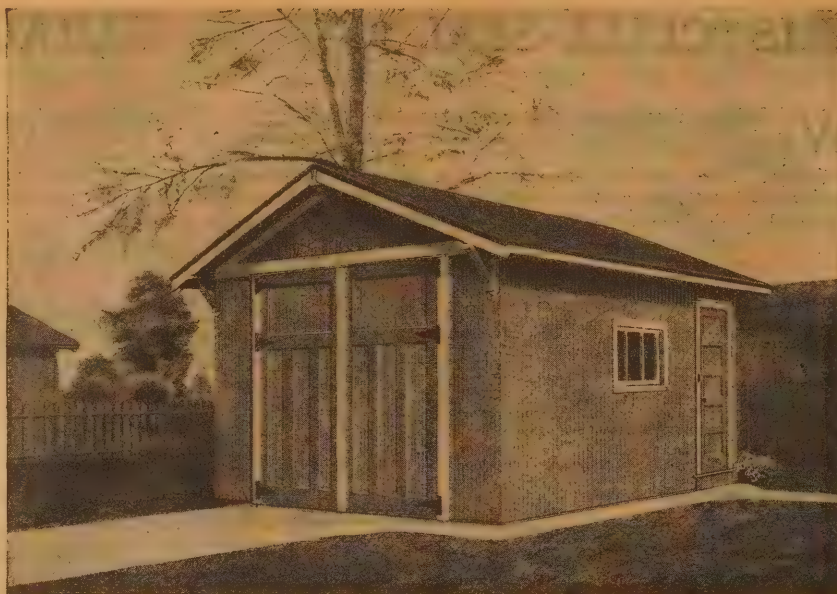
DOOR HANDLES: For each pair of auto doors and service door.

DIRECTIONS: Directions are furnished with every Garage. They are hardly necessary. The construction is so clear that the method of bolting the garage practically suggests itself. See reproduction of direction plans in this catalog.

FOUNDATION: See page 193 of catalog for further details. Foundation must be level and square. This is imperative. Garage can be set directly on the earth, or cinders, or posts, or piers, of brick, stone or concrete, or concrete foundation walls, and when placing same bear in mind that the outside measurements of our foundation sills are the same as the size given for the Garage, for instance, if you buy a 12'-6" x 16'-6" Garage and build a concrete foundation, see that the outside of same is exactly 12'-6"x16'-6" and the sills of our building will then fit down upon it perfectly. The same holds good for piers or posts unless you want to have them extend out beyond the sills of the building.

PATENTS: Various new and improved features of our buildings are patented—April 2nd, 1918, Sept. 3rd, 1918, March 22nd, 1921, July 18th, 1922, other patents pending. The right is reserved to make changes in construction and material as improvements may necessitate.

HARRIS Model "A" Single "Cellu-Seal" Garage



MODEL "A"—Gable Roof
"CELLU-SEAL" Insulator Lined

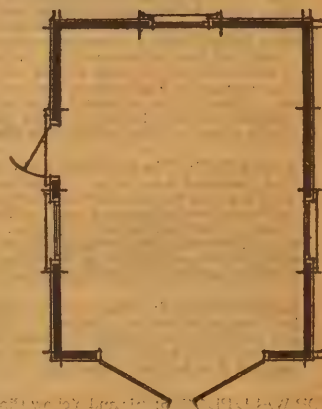
We have endeavored to explain very carefully in the preceding pages the superior method of Harris "CELLU-SEAL" Garage construction as well as the excellent grades of material used.

Here we show an actual photograph of the Model "A" Single Garage that has been sold to 75% of the Harris "CELLU-SEAL" Garage owners in the City of Chicago. There are no fancy, useless "frills" about this building, still it is far more attractive than most similar buildings built in the old fashioned saw and hammer method. Remember this, when a Harris "CELLU-SEAL" Garage is unloaded on your lot it is complete, there is no sawing or carpenter work to be done on the job; no "muss" around your yard. In 6 to 8 hours you can easily erect one of these garages.

This model is made in six sizes, from the smallest which is suitable for a Ford Roadster to the largest size that will accommodate any average Seven Passenger car on the market.

All Model "A" Single Garages are furnished with three sash windows, one service door, and a pair of large automobile doors as described under specifications on preceding pages. Door and window sections are interchangeable and you can arrange them to suit your individual needs.

All Harris "CELLU-SEAL" Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door, and "Quick Lock" for swinging doors or Harris "Rollaway" sliding door equipment. For description see Page 176.



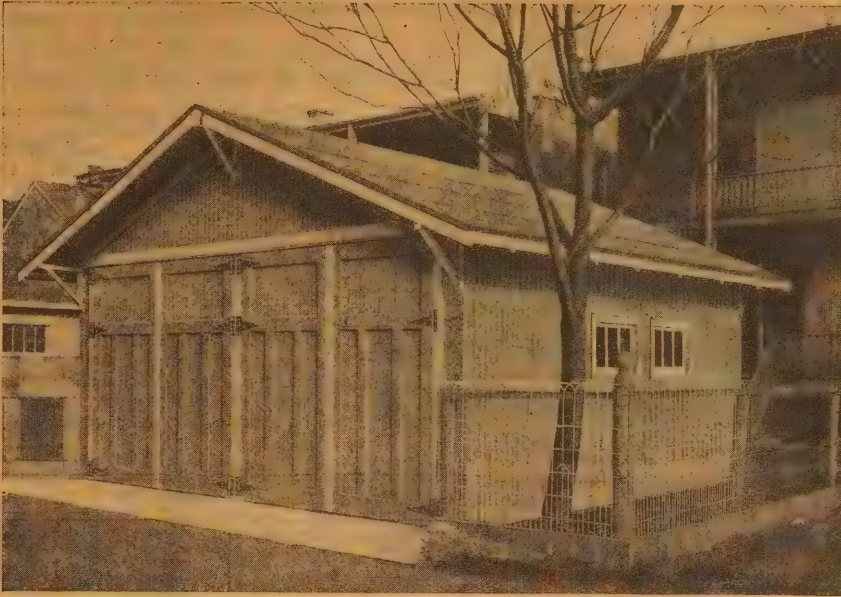
The above floor plan for a 12'6" x 16'6" Model "A" is merely given to show the number of doors and windows furnished on all Model "A" Garages. Bear in mind the sections are interchangeable and when you receive your Garage you can arrange the door and window sections around to suit.

MODEL "A"—ONE CAR GARAGES

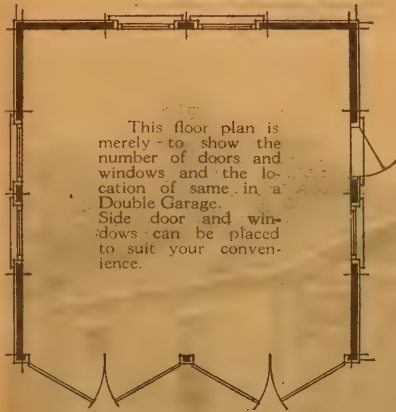
No.	SIZE		No. of Windows and Doors	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-2	9'6"	x14'6"	Three Sash—One Plain Service Door—Plain Auto Doors.	2400	\$135.00
38-E-5	10'6"	x16'6"		2700	152.00
38-E-6	10'6"	x18'6"		3000	164.00
38-E-8	12'6"	x16'6"		3100	166.00
38-E-9	12'6"	x18'6"		3300	176.00
38-E-10	12'6"	x20'6"		3600	189.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.

Model "A" Double "Cellu-Seal" Garage



MODEL "A"—Gable Roof
"CELLU-SEAL" Insulator Lined



Model "A" Double Garages are furnished in five different sizes. If you have sufficient room on your lot for a double garage it certainly is the best investment. Prices are proportionately lower than on Single Garages, and even if you only rent out one side at \$8.00 per month for six months out of a year—plus your own saving—you are still making nearly 50% on your investment for the first year.

This Model is furnished with five sash windows, one service door, and two pairs of automobile doors as illustrated. In the event that you find it necessary to partition the building we can furnish you with additional entrance door providing separate access to each stall. Price for extra door and partition quoted upon application.

All our Garages are painted one good heavy coat of stock color medium gray body paint, white trim and sash, and furnished with best quality Guaranteed Red or Green Slate Surfaced Roofing.

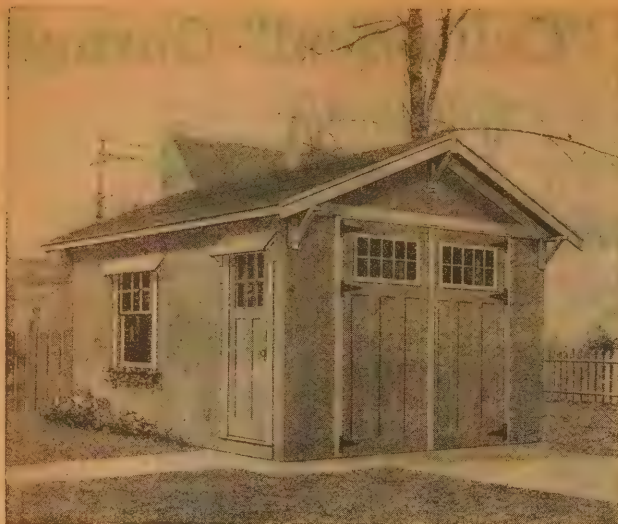
This is an actual photograph of a Model "A" Double Garage, a garage that anyone may well be proud to own, and you may be assured that the building will look just like this when erected.

All our Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door, and "Quick Lock" for Swinging Doors or Harris "Rollaway" Sliding Door Equipment. For description see Page 176.

Model "A"—Two-Car Garages

No.	SIZE		No. of Windows and Doors	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-12	16'6"	x18'6"	Five Sash—One Service Door—Plain Auto Doors.	4300	\$236.00
38-E-14	18'6"	x18'6"	" " " "	4600	250.00
38-E-15	18'6"	x20'6"	" " " "	4800	268.00
38-E-16	20'6"	x20'6"	" " " "	5100	279.00
38-E-18	20'6"	x24'6"	" " " "	6000	308.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.



MODEL "B"—Gable Roof
"CELLU-SEAL" Insulator Lined

Model "B" Single Garage

Model "B" Garages are identical with the Model "A" Garages described in the preceding pages except that the large entrance doors are furnished with divided glass top lights instead of plain wood, and, also, the windows and service door are Colonial type.

Here is not only a real beauty, but, at the same time, a quality building thruout in construction, material, and appearance, which will add much to the value of any property, and be a constant pleasure to look upon.

On the Single Garages up to and including the 12'6" x 18'6" size, two windows are furnished. On the remaining size three windows are included. Extra windows can be had at a slight extra cost. "Hoods" or "Canopies", as they are sometimes called, are furnished for over all windows and entrance door. Only one flower box with brackets is included in our price, as usually one side of the building is placed against the fence or adjacent building where flower box would not be necessary. Additional flower boxes will be furnished at extra cost.

No.	SIZE		No. of Windows and Doors	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-41	9'6"	14'6"	Two Colonial Wds.—One Glazed Service Door—Glazed Auto Doors.	2400	\$153.00
38-E-44	10'6"	16'6"	"	2700	171.00
38-E-45	10'6"	18'6"	"	3000	183.00
38-E-46	12'6"	16'6"	"	3100	185.00
38-E-47	12'6"	18'6"	"	3300	195.00
38-E-48	12'6"	20'6"	Three Colonial Wds.—One Glazed Service Door—Glazed Auto Doors.	3600	214.00

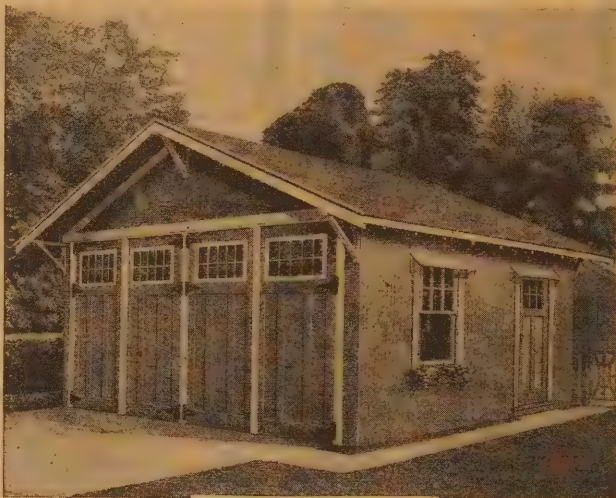
FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.

Model "B" Double HARRIS "Presto-Up" Garage

Model "B" Double Garages are likewise built of the same excellent grade of material and method of construction as the Model "A" Double Garages.

With the exception of the two last sizes listed below these garages have three Colonial windows, one service door, and two pairs of glazed front doors. The No. **38-E-53** size and the No. **38-E-54** size are furnished with four Colonial windows. Hoods are furnished as described above, also one flower box with brackets. Brackets and all trimmings as shown on this photograph are included in our price.

All Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door.



MODEL "B"—Gable Roof
"CELLU-SEAL" Insulator Lined

No.	SIZE		No. of Doors and Windows	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-50	16'6"	18'6"	Three Colonial Wds.—One Glazed Service Door—Glazed Auto Doors.	4300	\$263.00
38-E-51	18'6"	18'6"	"	4600	277.00
38-E-52	18'6"	20'6"	"	4800	295.00
38-E-53	20'6"	20'6"	Four Colonial Windows (Doors Same)	5100	312.00
38-E-54	20'6"	24'6"	Four Colonial Windows (Doors Same)	6000	341.00

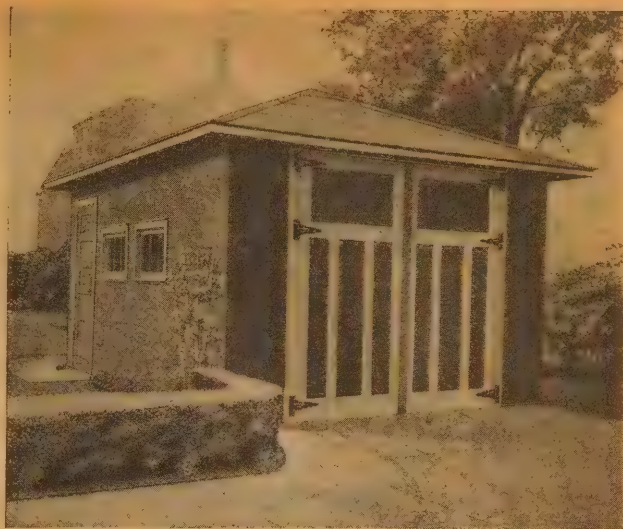
FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.

Model "C" Single Garage

The Model "C" Garages illustrated on this page are known as "Hip Roof" Garages, or sometimes called "Four-Way" Roofs. By careful experimenting we have developed these Hip Roof Garages with all the Patented "PRESTO-UP" features, and in addition thereto, a strong combination of our notch-lock truss and hip rafters, not to be found in any other type of building. Every garage is guaranteed that there can be no spreading of walls or sagging of roof, regardless of snowloads.

The grades of material and method of construction of this model is the same as all other Garages illustrated in this book except that this particular type of building may match up with the roof of your home.

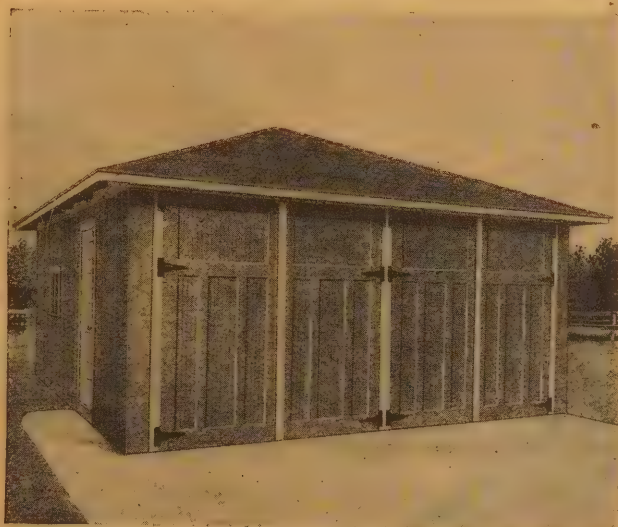
All Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock, foot bolts, chain bolts, and the "PRESTO" Door Holders.



Model "C"—Hip Roof.
"CELLU-SEAL" Insulator Lined

No.	SIZE		No. of Doors and Windows	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-63	10'6"	x16'6"	Three Sash—One Plain Service Door—Plain Auto Doors.	2700	\$165.00
38-E-64	10'6"	x18'6"	"	3000	176.00
38-E-65	12'6"	x16'6"	"	3100	179.00
38-E-66	12'6"	x18'6"	"	3300	190.00
38-E-67	12'6"	x20'6"	"	3600	203.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.



Model "C" Double Garage

Two Car Model "C" Garages are furnished in seven different sizes, the smallest size suitable for two Fords or cars of similar size.

If hoods or flower boxes are wanted on any of these Models we can furnish same at a slight extra cost. Full description and prices are given on preceding pages of this Catalogue.

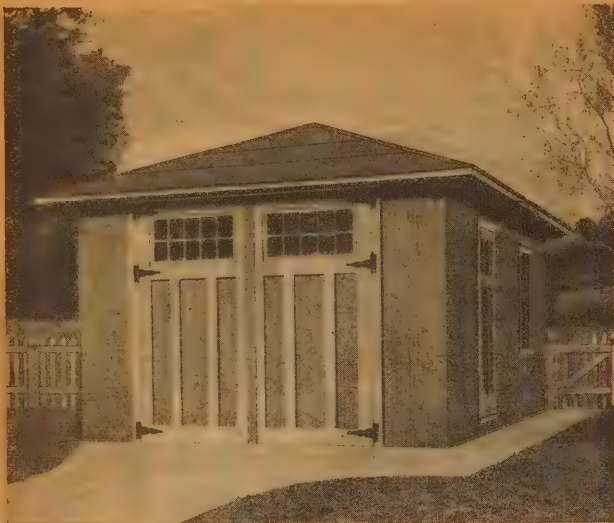
These Garages are furnished with five small sash, one service door, and two pair of large doors. Additional service doors, partitions, hoods or flower boxes can be had.

All Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door.

Model "C"—Hip Roof.
"CELLU-SEAL" Insulator Lined

No.	SIZE		No. of Doors and Windows	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-70	16'6"	x18'6"	Five Sash—One Plain Service Door—Plain Auto Doors.	4300	\$254.00
38-E-71	18'6"	x18'6"	"	4600	268.00
38-E-72	18'6"	x20'6"	"	4800	287.00
38-E-73	20'6"	x20'6"	"	5100	298.00
38-E-74	20'6"	x24'6"	"	6000	328.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.



Model "D"—Hip Roof
"CELLU-SEAL" Insulator Lined

Model "D" Single Harris "Cellu-Seal" Garage

Here is another example of a beautiful HARRIS "CELLU-SEAL" Garage. This is a Model "D," identical in construction with all other HARRIS "CELLU-SEAL" Garages, in all details. It has a hip roof, divided top light doors, and Colonial service doors and windows.

It is indeed difficult to imagine that this is a sectional building, and that anyone can make just as good a job of it—the reason is simple—it is the result of the carefully thought-out Patented Construction—No joints show—wind, weather and fool proof, made of best materials, not only to look well, but, to last long. Indeed there are few expensive hand-built garages that will give as satisfactory results as our garages. Yours will look equally as well if you use care in the erection and follow simple instructions.

Model "D" Single Garages are furnished with the same number of windows and doors as Model "B" Garage. Our Garages are manufactured strictly according to specifications on preceding pages of this Catalogue, and include full door equipment such as Yale lock for service door and "Quick Lock" for Swinging Door or Harris "Rollaway" Sliding Door equipment. For description see Page 176.

No.	SIZE		No. of Doors and Windows	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-23	10'6"	x16'6"	Two Colonial Wds.—One Glazed Service Door—Glazed Auto Doors.	2700	\$177.00
38-E-24	10'6"	x18'6"	"	3000	189.00
38-E-25	12'6"	x16'6"	"	3100	191.00
38-E-26	12'6"	x18'6"	"	3300	203.00
38-E-27	12'6"	x20'6"	Three Colonial Windows (Doors Same)	3600	219.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.

Model "D" Double Harris "Cellu-Seal" Garage

Your Model "D" Garage will be equally as handsome as this one, erected on the back lot of a \$50,000.00 residence, here in Chicago. Furnished in five different sizes, each accommodating two cars, from the smallest to the largest.

HARRIS "CELLU-SEAL" Garages are fit to grace any surroundings, and this Model "D" can be made still more attractive by the addition of hoods over the service doors and windows and flower boxes, such as are shown on some of the other Models, and illustrated and described in detail in the back pages of this Catalogue.

Model "D" Double Garages are furnished with three Colonial windows, one service door, two pairs of automobile doors, all as illustrated and per specifications for Model "B" Garage and in the preceding pages of this Catalogue. If partitions and additional service doors are wanted, we will gladly quote low price on same.

All our Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door and "Quick Lock" for Swinging doors or Harris "Rollaway" Sliding Door equipment. For description see page 176.



Model "D"—Hip Roof
"CELLU-SEAL" Insulator Lined

No.	SIZE		No. of Doors and Windows	Approximate Weight, lbs.	Cash Price
	Width	Length			
38-E-32	16'6"	x18'6"	Three Colonial Wds.—One Glazed Service Door—Glazed Auto Doors.	4300	\$272.00
38-E-33	18'6"	x18'6"	"	4600	287.00
38-E-34	18'6"	x20'6"	"	4800	305.00
38-E-35	20'6"	x20'6"	Four Colonial Wds.—One Glazed Service Door—Glazed Auto Doors.	5100	322.00
38-E-36	20'6"	x24'6"	"	6000	352.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.

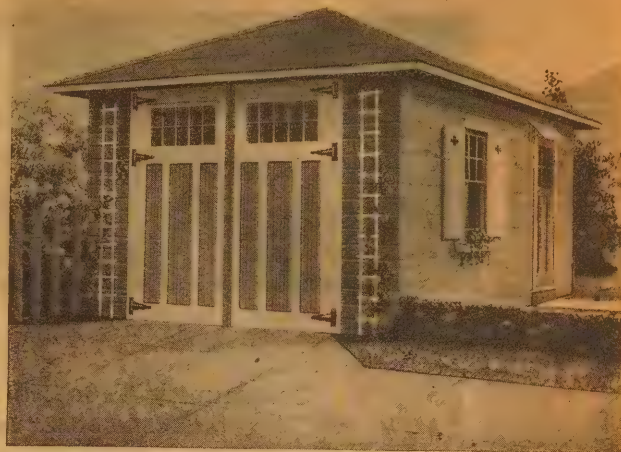
Model "E" Single and Double, Lined Garages

Model "E" Garages are Harris "CELLU-SEAL" Garages in every detail, and in addition thereto, are **lined on the inside**, that is, the inside of the outside wall is lined with a Select grade Oregon Fir Ceiling. The building is shipped to you with the siding on "inside out," so to speak; by that is meant, that the inside lining is on the sections, and the garage is bolted together in the usual manner, then the Beveled Siding, which is furnished in random lengths, is to be nailed on the outside by the purchaser, thus giving him a sectional building that is easy to erect, but which ceases to be sectional in every sense of the word after the weather-boarding has been nailed on.

The constant demand for Colonial type Garages to match Colonial Houses has caused us to develop this Model "E" Garage. Siding furnished is clear 8" Redwood bevel siding.

Price includes full equipment of shutters on all windows, as well as hood for door, and flower boxes for two windows. Trellis are furnished as illustrated.

All our Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door, and "Quick Lock" for Swinging Doors or Harris "Rollaway" Sliding Door equipment. For description see page 176.



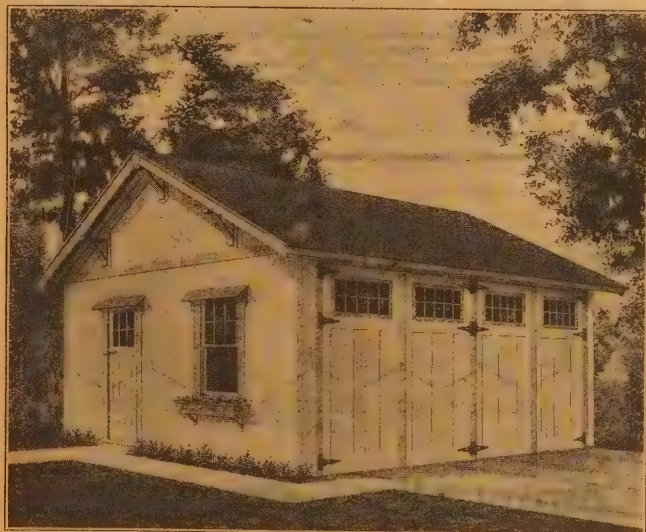
Model "E"—Hip Roof
"CELLU-SEAL" Insulator Lined

MODEL "E"—ONE CAR

MODEL "E"—TWO CAR

No.	SIZE Width Depth	No. of Doors-Windows	Approx. Weight	Cash Price	No.	SIZE Width Depth	No. of Doors-Windows	Approx. Weight	Cash Price
38-E-83	10'6"x16'6"	Two Colonial Windows, one glazed service door, glazed Auto Door.	3400 lbs.	\$236.00	38-E-91	16'6"x18'6"	Three Colonial Windows one glazed service door, glazed Auto Doors....	5200 lbs.	\$343.00
38-E-85	12'6"x16'6"	"	4000 lbs.	252.00	38-E-92	18'6"x18'6"	"	5700 lbs.	361.00
38-E-86	12'6"x18'6"	"	4300 lbs.	266.00	38-E-94	20'6"x20'6"	Four Colonial Windows, (Doors Same).....	6300 lbs.	413.00
38-E-87	12'6"x20'6"	Three Colonial Windows (Doors Same).....	4700 lbs.	294.00	38-E-95	20'6"x24'6"	"	7400 lbs.	448.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.



Model "G"—Gable Roof
"CELLU-SEAL" Insulator Lined

Model "G" Double and Community Garages

Colonial Type

Colonial Garages to match Colonial homes are more in demand due to the increasing popularity of Colonial homes.

This Model "G," Colonial style, Harris "CELLU-SEAL" Garage is identical in construction with the Model "B" Garage illustrated on the preceding pages except that the roof is turned the other way. A special reinforced top plate over the front doors is furnished adding considerable to the strength, also to the appearance of the Garage.

Model "G" Garages are furnished in Double sizes as listed below, also in three and four car sizes. One flower box is furnished. Hoods for all windows and service door are included.

All our Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment such as Yale lock for service door, and "Quick Lock" for Swinging Doors or Harris "Rollaway" Sliding Door equipment. For description see page 176.

No.	Capac.	SIZE Wdth. Dpth.	No. of Doors and Windows	Approx. Weight	Cash Price
38-E-130	2 car	18'6"x16'6"	Three Colonial Wds.—Glazed Service Door—Glazed Auto Doors	4300 lbs.	\$268.00
38-E-131	2 car	18'6"x18'6"	"	4600 lbs.	284.00
38-E-132	2 car	20'6"x18'6"	"	4800 lbs.	299.00
38-E-133	2 car	20'6"x20'6"	Four Colonial Windows. (Doors Same).....	5160 lbs.	315.00
38-E-134	3 car	24'6"x20'6"	Five Colonial Windows. (Doors Same).....	6000 lbs.	362.00
38-E-135	4 car	32'6"x20'6"	Seven Colonial Windows. (Doors Same).....	8200 lbs.	473.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT SEE PRICE LIST.

Community Garages



Community Model No. 125—Six-Car Garage

"CELLU-SEAL" Insulator Lined

Just the Thing for Factories, Apartments, Etc.

Industrial plants above all should buy our Patented Harris "CELLU-SEAL" unit made Garages, because in the event of future plant expansion necessitating re-arranging building or ground spaces, the location occupied by a garage might be highly desirable. If the Garage is a Harris "CELLU-SEAL" Garage, it will be an easy matter, to take it down and re-erect it if only reasonable care is taken, without any damage whatever, therefore, continue to give full value at its new location.

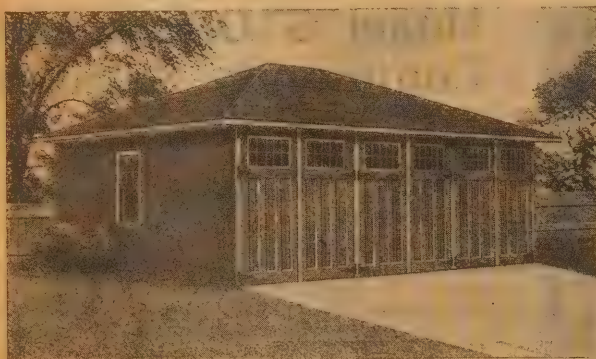
This cannot be said of any regular hand built building which under the same conditions would frequently mean a loss of 50 to 75% of the value of the building itself, or other inconveniences by being compelled to build around them, so to speak.

The building shown above is a six-car garage, providing a space of 8' wide and 20' deep for each car, sufficiently long enough for any touring car. The front door openings are 7'6" wide by 7'8" high. Partition material is not included. Windows furnished are the regular two sash Colonial top windows. Building is manufactured of regular Harris "CELLU-SEAL" Garage units as described on preceding pages. Three handy men should have no difficulty in erecting this building, in a day and a half or two days.

These Buildings are made up in six different sizes as listed below, suitable for large or small industrial plants, or can be erected and pay a handsome return on the investment. A popular three-car Garage is the No. 120, illustrated below, which provides a space 8' x 18', taking in any average seven-passenger car. Dormers are included only on the last three sizes listed below.

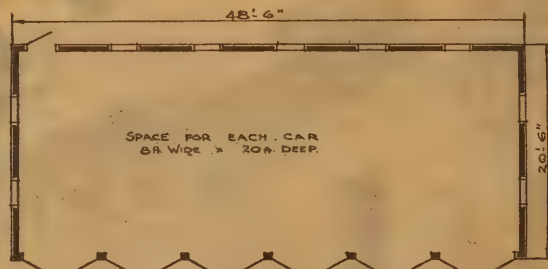
If plain front doors are wanted on any of the Models shown on this page instead of the glass doors illustrated, same can be furnished at a reduction in price. Prices gladly quoted upon application.

All our Garages are manufactured strictly according to specifications given on preceding pages, and include full door equipment. Yale lock for service door and "Quick Lock" for Swinging Doors or Harris Rollaway Sliding Door equipment. For description see page 176.

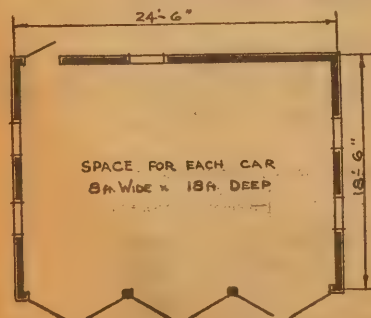


No. 120—Three-Car Garage

"CELLU-SEAL" Insulator Lined



FLOOR PLAN OF "PRESTO-UP" SIX-CAR GARAGE
No. 125



FLOOR PLAN OF HARRIS "CELLU-SEAL"
THREE-CAR GARAGE No. 120

Community Garages

Offered in the Following Sizes

No.	Capacity	SIZE Width Depth	No. of Doors and Windows	Approx. Weight	Cash Price
38-E-120	3 car	24'6"x18'6"	Five Colonial Wds., one glazed service door, glazed Auto Doors.	5800 lbs.	\$370.00
38-E-121	3 car	24'6"x20'6"		6200 lbs.	386.00
38-E-122	4 car	32'6"x18'6"	Seven Colonial Wds. (Doors Same)	7400 lbs.	452.00
38-E-123	4 car	36'6"x20'6"		8800 lbs.	530.00
38-E-124	5 car	40'6"x20'6"	Eight Colonial Wds. (Doors Same)	9800 lbs.	595.00
38-E-125	6 car	48'6"x20'6"	Nine Colonial Wds. (Doors Same)	12000 lbs.	679.00

FOR TIME PAYMENT PRICES AND PLANS OF PAYMENT, SEE PRICE LIST.]

"PERFECTION" Plumbing and Heating

IN the pages which follow you will find the complete line of Perfection Plumbing and Heating equipment—everything to the last fitting for the complete installation of your plumbing system and all supplies for steam, hot water and warm air heating plants. In point of wide selections, dependable time tested quality and big values, every one of these pages should interest you. As you look them over, please remember that every article offered is guaranteed to be exactly as represented, and in practically every instance, the same class of material that is sold throughout the country at considerably more than our low big volume prices.

FREE Engineering Service!

We Furnish Blue Prints and Specifications!

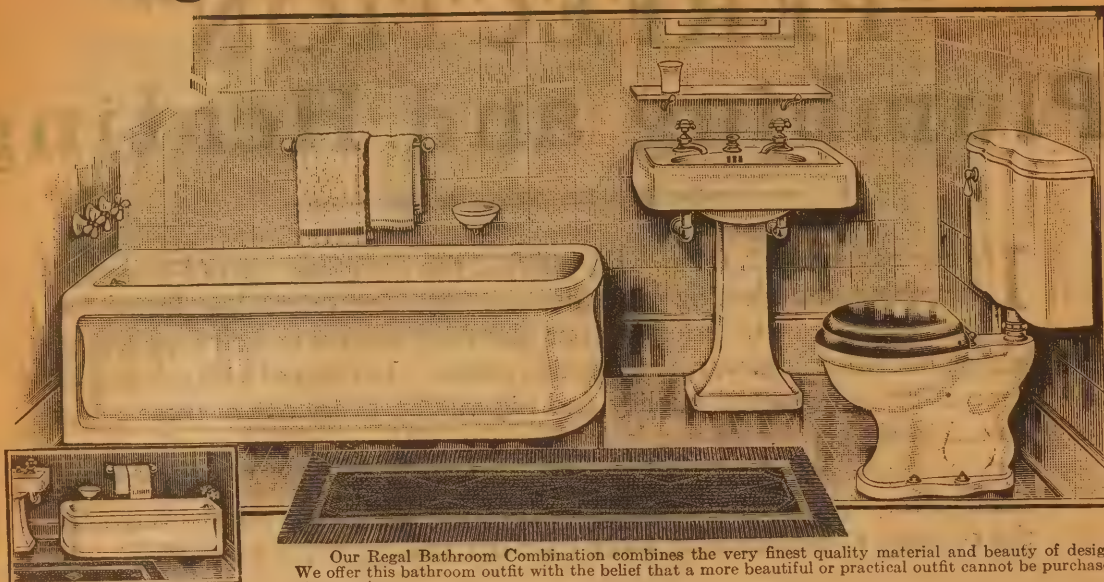
❑ If you can read a plain blue print, run a thread on a few pieces of pipe, use a wrench and can handle ordinary tools, we will show you how you can install a modern plumbing or heating system in your building at a big money saving. Thousands before you have done it. Why not you? Many of our customers were no more familiar with the materials or the use of tools than you are, but with the aid of our simple instructions, our blue prints and material lists, the work was made extremely simple. It's really impossible to go wrong when our plans and instructions are followed.

❑ The blue prints, instructions and material lists for your plumbing or heating plant will be prepared by our competent engineers—experts in this line. They have advised thousands of our customers who purchased their materials from us and who are now enjoying these modern conveniences.

❑ Send us the plans for your building. These plans do not need to be architects' plans. A rough pencil sketch will be sufficient. Simply show the basement and floor plans. Mark the size of the rooms, height of your ceilings, number and size of the outside doors and windows in each room; then state the direction which your building faces. State the kind of heating plant or plumbing system you are most interested in and our engineers will do the rest. You will receive from us an estimate of the cost of the material needed to install complete efficient systems.

❑ If you do not own a set of tools such as are required to do the work, we will rent you a complete set, making only a nominal charge for their use. In this book you will find these tools illustrated and the plan under which they may be ordered is explained in detail.

Regal Bathroom Combination



Our Regal Bathroom Combination combines the very finest quality material and beauty of design. We offer this bathroom outfit with the belief that a more beautiful or practical outfit cannot be purchased at any price.

Pedestal lavatory designed with massive Colonial base and slab size 20 x 24 inches, 31 inches high. The base and slab are enameled with white porcelain enamel, furnished with nickel-plated Roman lifting waste and nickel-plated supply pipes, nickel-plated trap and cast brass nickel-plated faucets with white china handles, indexed hot and cold.

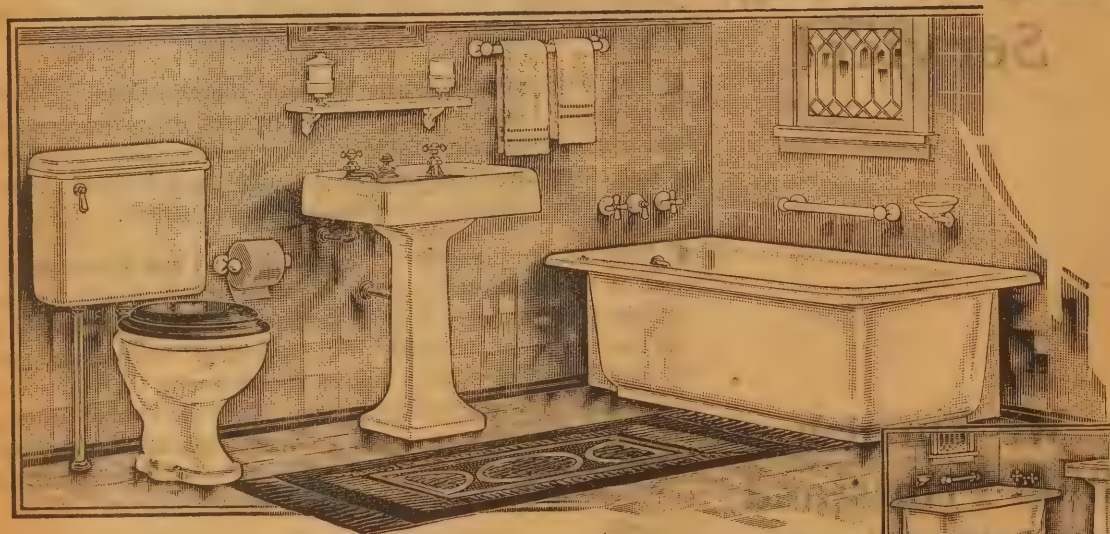
The closet outfit is furnished with a white vitreous china tank, fitted with compound ball cock and nickel-plated supply pipe, nickel-plated offset flush connection. Syphon jet silent action closet bowl, made of vitreous earthenware, fitted with heavily constructed closet seat, finished in a highly polished Mahogany, heavy nickel-plated bar hinge to attach seat direct to the bowl.

The bath tub is deep apron cornered type, 5 ft. long, cast in one piece of the finest quality gray cast iron, enameled inside and out. The back and one end of the tub are finished into the wall and the base is finished into the floor. The fittings furnished are of the concealed type built into the wall. The supply pipes and lifting waste are equipped with white china handles and escutcheons. The bath tub can be furnished for either right or left hand corner. Be sure to specify the style tub you desire when ordering this outfit.

5-E-1209. The Regal Bathroom Outfit, complete as described

\$147.00

Duchess Bathroom Combination



Duchess Bathroom Combination assembled with utmost care to embody every necessary requirement for a modern bathroom outfit. The fixtures furnished are of the finest quality material and workmanship and we consider this outfit second only to our Regal Bathroom Outfit, in that the tub is the roll rim type instead of the deep apron. With this exception, the outfit is of the same high quality as the Regal Combination.

Pedestal Lavatory designed with Massive Colonial Base and Slab — 20 x 24 inches, 31 inches high. The base and slab are enameled with white porcelain enamel, furnished with nickel-plated Roman Lifting Waste and nickel-plated supply pipes, nickel-plated traps and cast brass nickel-plated faucets with white china handles, indexed hot and cold.

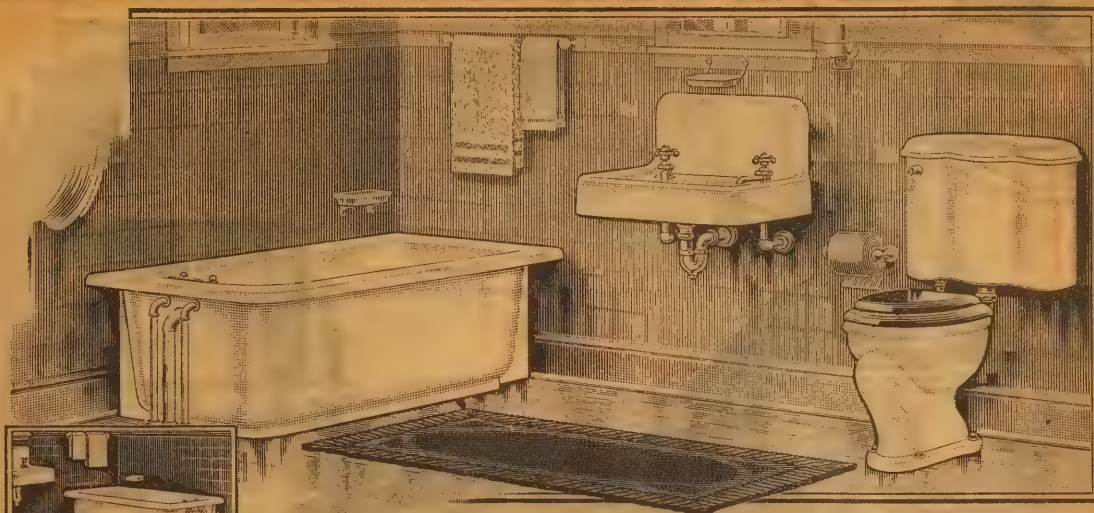
The closet outfit is furnished with a white vitreous closet tank fitted with compound ball cock and nickel-plated supply pipe, nickel-plated offset flush connection. Syphon jet silent action closet bowl, made of vitreous earthenware, fitted with heavily constructed closet seat, finished in a highly polished Mahogany, heavy nickel-plated bar hinge to attach seat direct to the bowl.

The bath tub is the roll rim corner type, 5 ft. long, cast in one piece of the finest quality gray cast iron, enameled inside and out with white porcelain enamel. The back and one end of the tub are finished into the wall and the base is finished into the floor. The fittings furnished are the concealed type built into the wall. The supply pipes and lifting waste are equipped with white china handles and escutcheons. Tub can be furnished for either right or left corner. Be sure to specify style tub you desire when ordering the outfit.

5-E-1210. The Duchess Bathroom Outfit, complete as described

\$125.00

Princess Bathroom Combination



Our Princess Bathroom Combination has been selected to supply the demand for an up-to-date sanitary bathroom outfit, where space is limited and where an inexpensive outfit is desired. In this combination we offer a strictly modern outfit with a built-in tub at a very low price.

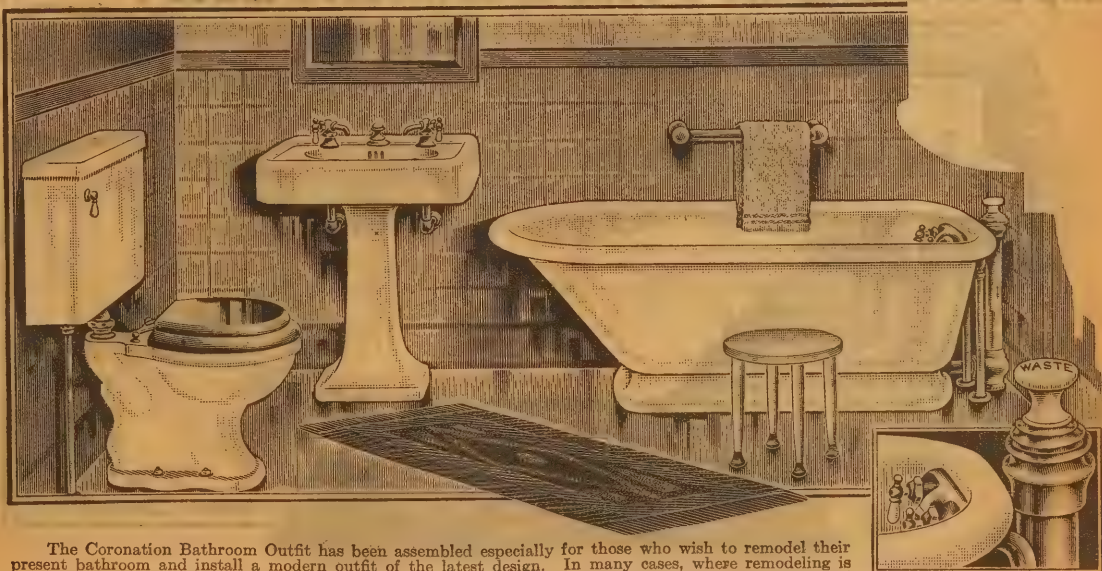
The lavatory is of Colonial design, straight front, deep apron type, size 18 x 24 inches. The fittings consist of nickel-plated faucets with crossed handles, indexed for hot and cold water, nickel-plated brass supply pipes to the wall and nickel-plated brass "T" trap.

The closet outfit includes a white vitreous china tank, fitted with compound ball cock, nickel-plated supply pipe and nickel-plated brass connecting ell. The bowl is the wash-down Syphon action type, made of vitreous earthenware, fitted with heavily constructed closet seat, finished in a highly polished Mahogany, heavy nickel-plated bar hinge to attach seat direct to bowl.

The tub is of the roll rim corner type, 5 ft. long, cast in one piece of the finest quality gray iron casting, enameled inside and out with white porcelain enamel. Back and one end of the tub finished into the wall and the base is finished into the floor. The fittings are of exposed type and consist of special nickel-plated brass connected waste and overflow with long extension "T" threaded to connect with 1 1/2-inch iron pipe. Nickel-plated brass supply pipes and nickel-plated double bath cock with china handles, indexed for hot and cold water.

5-E-1214. The Princess Bathroom Outfit, complete as described. **\$100.00**

Coronation Bathroom Combination



The Coronation Bathroom Outfit has been assembled especially for those who wish to remodel their present bathroom and install a modern outfit of the latest design. In many cases, where remodeling is done, it is not practical to install built-in tubs. We have included with this outfit, therefore, a pedestal or base tub, enameled inside and out, which, combined with the pedestal lavatory and syphon jet closet outfit, makes the Coronation a really wonderful bathroom combination.

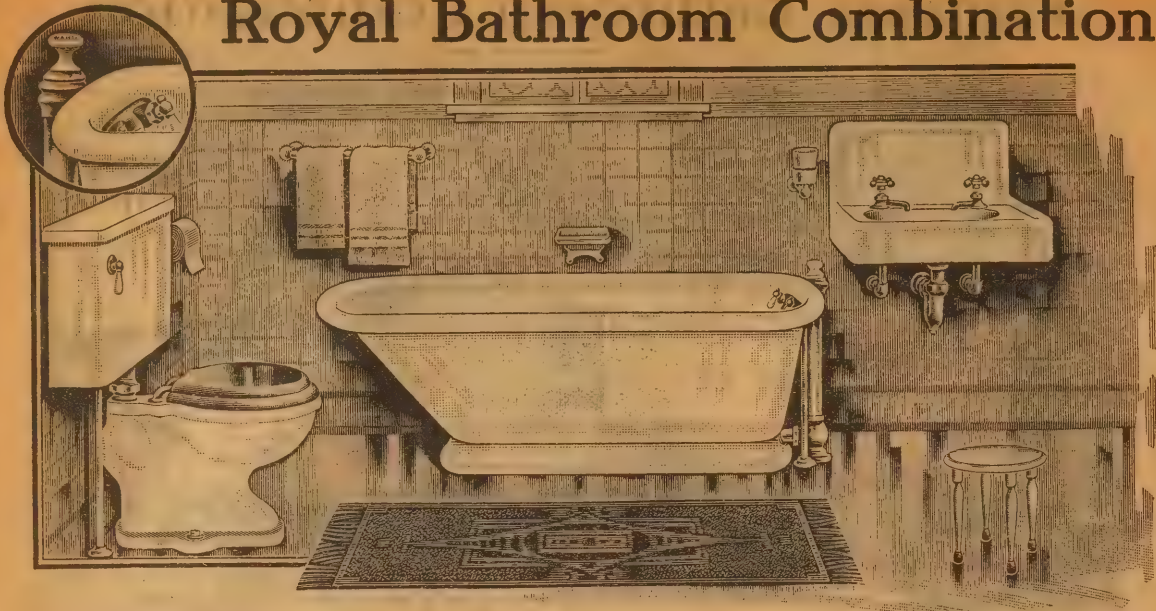
The Bath Tub is cast in one piece, and coated with white porcelain enamel both inside and outside; it measures 5 ft. long, 30 in. wide, and is made with a 3-in. roll rim. Finest quality fittings are included with the tub, consisting of heavily nickel-plated brass ideal lifting waste, which does away with the troublesome chain and stopper, nickel-plated quick compression double bath cock, with white china handles, indexed for hot and cold water; nickel-plated supply pipes.

The Pedestal Lavatory, designed to match the tub is entirely covered with white porcelain enamel. Size of slab 20x24 inches, with oval bowl 12 x 16 inches and stands 31 inches high. It is fitted with nickel-plated Roman lifting waste, nickel-plated supply pipes, nickel-plated trap and nickel-plated faucets with white china handles indexed for hot and cold water.

The Closet Outfit is furnished with a white, vitreous china tank in mission style, and is fitted with compound elevated ball cock and nickel-plated supply pipe. Tank connects to bowl with nickel-plated 2-inch offset flush. The bowl is an improved Syphon Jet silent action type, made of vitreous earthenware and is fitted with a practically indestructible seat and cover, finished in highly polished mahogany. Nickel-plated bar hinges attach the seat direct to bowl.

5-E-325. The "Coronation" Bathroom outfit is furnished complete as described. **\$130.00**

Royal Bathroom Combination



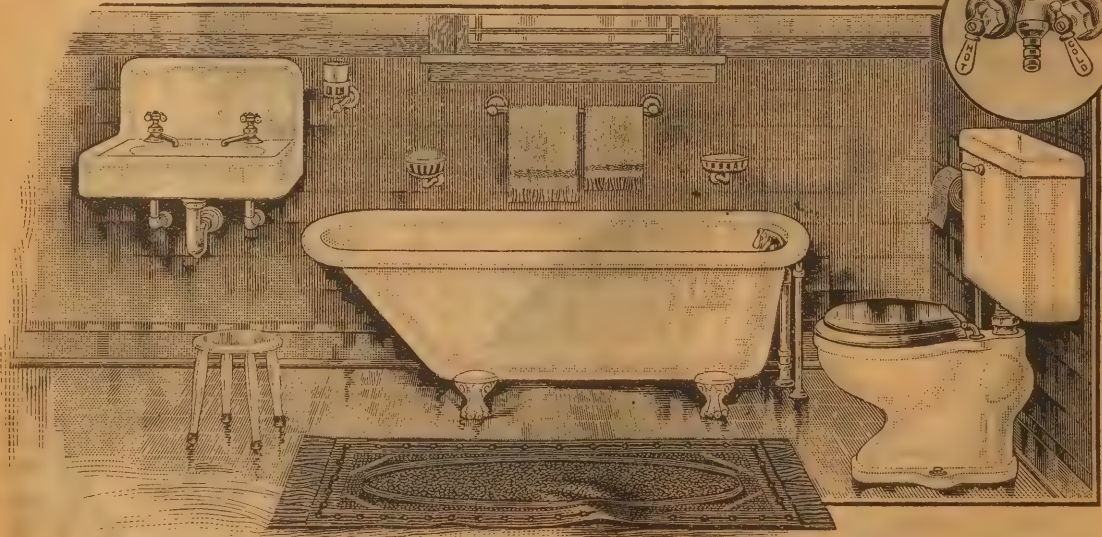
Most prominent of all the desirable features of this combination is the massively designed bath tub with pedestal base. The tub sets flush all around on the floor and eliminates the old-fashioned leg base so difficult to clean under.

The pedestal base bath tub is coated on the inside and over the 3-inch roll rim with white porcelain enamel. Measures 5 feet long and 30 inches wide; fitted with nickel-plated double bath cock with handles indexed for hot and cold water. Roman or lifting waste; nickel-plated supply pipes to floor. The closet outfit consists of a white vitreous earthenware tank fitted with heavy brass and copper interior trimmings. Perfect action. Syphon jet silent action white vitreous earthenware bowl, highly polished.

Finely finished seat and cover in mahogany; attaches to the bowl with nickel-plated bar hinges. The lavatory measures 18x24 inches. It is unusually attractive in design with 10-inch back. Fitted with compression faucets, indexed for hot and cold water. Nickel-plated supply pipes and "P" trap to wall.

5-E-74. Royal Bathroom combination, complete as described \$89.00 for iron pipe connections.

Empress Bathroom Combination



This elegant outfit is designed for those who wish an extra fine bathroom equipment, neat of design and splendid in quality. The three pieces and all fittings to the last detail have been carefully chosen and embodied in a combination suited to the finest home.

The bath tub measures 5 feet long and 30 inches wide and is made with a 3-inch roll rim. Coated on the inside and over the rim with white porcelain enamel. It is furnished complete with nickel-plated compression double bath cock with handles indexed "hot and cold"; nickel-plated connected waste and overflow, supply pipes, chain and rubber stopper.

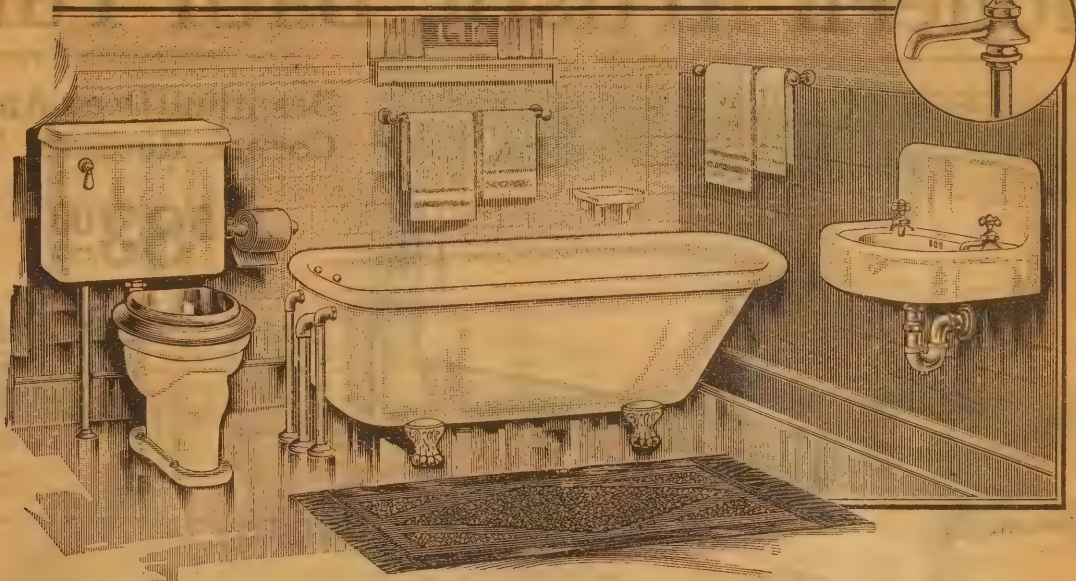
The closet outfit is an improved low down design furnished with Syphon jet silent action white vitreous earthenware bowl. The mahogany finished seat and cover are attached with nickel-plated bar hinges. White porcelain China closet tank, fitted with best trimmings; perfect in action. Nickel-plated offset and supply pipe.

The one-piece lavatory is heavily coated with white porcelain enamel and is made in deep apron style. Measures 18x24 inches with 10-inch back and "D" pattern bowl size 11x14 inches. Fitted with nickel-plated faucets with handles indexed "hot and cold." Nickel-plated supply pipes and "P" trap to wall.

5-E-580. Empress Bathroom combination complete as described for iron pipe connections.....\$79.00

Shipped complete from Chicago warehouse.

Countess Bathroom Combination



This desirable bathroom outfit embodies all features of modern plumbing. It is offered to meet the demand for an outfit of very select quality and perfect design. Nothing has been spared in selecting all pieces and best fittings that could possibly be furnished at our big economical prices.

The bath tub furnished is 5 feet long and 30 inches wide; massive and well proportioned. Heavily coated on the inside and over the 3-inch roll rim with white porcelain enamel. Fitted with nickel-plated compression double bath cock indexed for hot and cold water; nickel-plated connected waste and overflow and supply pipes.

The closet outfit includes an improved wash down type vitreous earthenware bowl and plain white vitreous earthenware tank; fitted with Douglas pattern perfect acting valve. All tank fittings are made of heavy brass and copper; operated with China lever in front. The closet seat and cover are highly finished in mahogany and attached to the bowl with nickel-plated bar hinges.

The deep apron lavatory is coated with white porcelain enamel and measures 18x21 inches with 8 inch back and "D" pattern bowl, size 10½x14½ inches. Fitted with two nickel-plated compression faucets with China tops indexed for hot and cold water. Nickel-plated 1½ inch "P" trap to wall and ¾ inch nickel-plated supply pipes.

5-E-67. Countess Bathroom combination, complete as described, for iron pipe connections..... **\$69.00**

Sovereign Bathroom Combination



The Sovereign Bathroom Combination has been carefully assembled to offer every requirement for the modern bathroom. Considering the splendid quality and modern design of every piece and part, the low price will encourage your immediate decision in favor of this outfit.

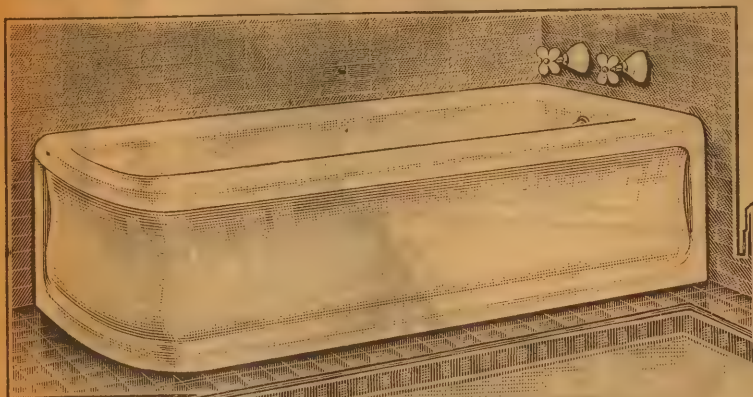
The bath tub measures 5 feet long and 30 inches wide and is made with a 3-inch roll rim. Coated on the inside and over the rim with white porcelain enamel. It is furnished complete with nickel-plated compression double bath cock with handles indexed hot and cold; nickel-plated connected waste and overflow, supply pipes, chain and rubber stopper.

The closet outfit is an improved low down design furnished with wash down type white vitreous earthenware bowl. The oak seat and cover are attached with nickel-plated offset hinges. The oak closet tank matches the seat and cover in finish. It is fitted with best trimmings and is perfect in action. Lined throughout with heavy copper. Nickel-plated flush elbow and supply pipe.

The one-piece lavatory is heavily coated with white porcelain enamel and is made in deep apron style. Measures 17x19 inches with 10 inch back and "D" pattern bowl, size 10½x13½ inches. Fitted with nickel-plated faucets with handles indexed hot and cold. Nickel-plated supply pipes and "P" trap to wall.

5-E-300. Sovereign Bathroom combination, complete as described, for iron pipe connections..... **\$59.00**

Modern Artistic Bath Tubs



Beautiful Deep Apron Corner Recessed Tub

\$83⁰⁰

We offer this tub as the highest type of porcelain enamel ware possible to manufacture. Its beauty of design and special white enameled finish give the bathroom an elegance of appearance impossible to obtain with any other type of tub. Cast in one piece of the finest quality gray iron casting, coated inside and out with beautiful white porcelain enamel. Finished on one side and one end. An allowance of $\frac{1}{2}$ inch is made for finishing into the floor and $\frac{1}{4}$ inch on the back and end for finishing into the wall.

The fittings furnished are of the concealed type. The supply pipes and lifting waste are equipped with white china handles and escutcheons.

Tubs furnished for either right or left corner, made in three sizes:

5-E-1001—5 ft. long, complete with fittings.....	\$83.00
5-E-1002—5 ft. 6 ins. long, complete with fittings.....	87.00



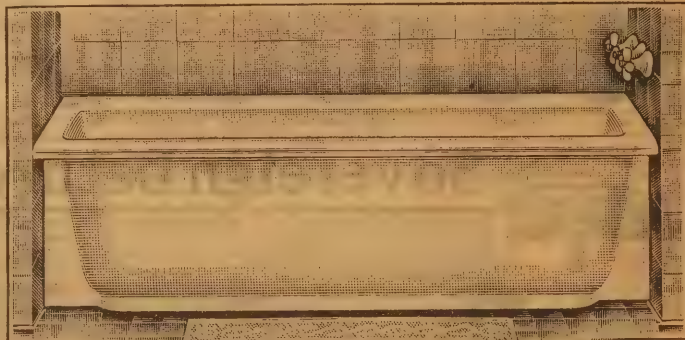
Impressive Built-In Full Recessed Tub

\$62⁰⁰

This tub is all cast in one piece and enameled inside and over the 3 inch flat rim. It is finished with the highest grade porcelain enamel. The back and both ends are built into the wall. An allowance of $\frac{1}{2}$ inch is made on the back and two ends, as well as on the bottom for setting into the floor.

The fittings are the concealed type. The supply pipes and lifting waste are equipped with white china handles and escutcheons. Tubs furnished with outlet at either right or left end. Made in three sizes:

5-E-1003—4 ft. 6 ins. long, complete with fittings.....	\$62.00
5-E-1004—5 ft. long, complete with fittings.....	65.00
5-E-1005—5 ft. 6 ins. long, complete with fittings.....	70.00



Attractive Built - In Corner Recessed Tub

\$55⁰⁰



Latest Double
Bath Cock

Built-in corner tub with 3 inch rim enameled inside and out, finished with finest quality porcelain enamel. An allowance of $\frac{1}{2}$ inch is made for finishing the back and one end into the wall and $\frac{1}{2}$ inch for finishing tub into the floor. Fitted with double compression nickel-plated bath cock, with china handles, indexed hot and cold, nickel-plated brass connected waste and overflow, nickel-plated brass supply pipes. Furnished for right or left corner.

5-E-1006—4 ft. 6 ins. long, complete with fittings described.....	\$55.00
5-E-1007—5 ft. long, complete with fittings described.....	58.00
5-E-1008—5 ft. 6 ins. long, complete with fittings described.....	65.00



Finest Quality—Priced Low!

Elegant Deep Apron Full Recessed Tub

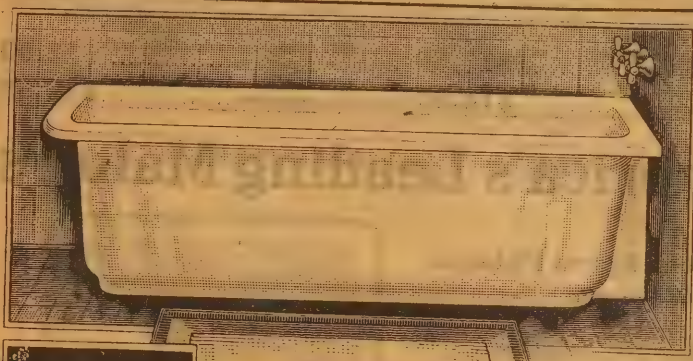
\$78⁰⁰

One piece porcelain enameled tub, enameled inside and over the apron with finest quality white porcelain enamel. The back and both ends are finished into the wall and an allowance of $\frac{1}{2}$ inch is made on this tub for finishing.

The fittings furnished are the concealed type. The supply pipes and Ideal lifting waste are equipped with white china handles and escutcheons. Tubs can be furnished with outlet at either right or left end, made in three sizes:



5-E-1010—5 ft. long, complete with fittings.....	\$78.00
5-E-1011—5 ft. 6 ins. long, complete with fittings.....	82.00



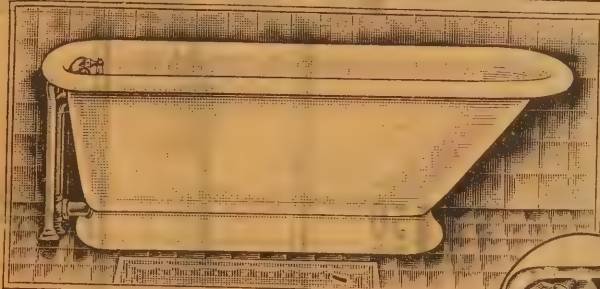
Neat Built-In Corner Recessed Tub

\$67⁰⁰

One piece cast iron enameled tub with 3 inch rim, enameled inside and out with the finest quality white porcelain enamel. An allowance of $\frac{1}{2}$ inch is made on the back and one end of this tub for finishing into the wall.

The fittings are the concealed type. Supply pipes and lifting waste are equipped with white China handles and escutcheons. Tub furnished for either right or left corner, made in three sizes:

5-E-1012—4 ft. 6 ins. long, complete with fittings.....	\$67.00
5-E-1013—5 ft. long, complete with fittings.....	70.00
5-E-1014—5 ft. 6 ins. long, complete with fittings.....	75.00



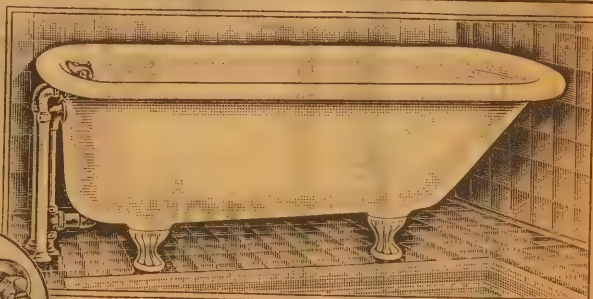
Pedestal Bath Tub

Made of the best grade of gray cast iron enamel, heavily coated with white porcelain enamel inside and over the 3 inch roll rim.

Tub furnished with nickelplated compression bath cock with China handles, indexed hot and cold, nickelplated connected waste and overflow and nickelplated supply pipes.

Tub complete as described. Pedestal bath tub porcelain enameled inside and outside complete with fittings listed above:

5-E-1015—4 ft. 6 ins....	\$38.00	5-E-1018—4 ft. 6 ins....	\$61.00
5-E-1016—5 ft.....	38.00	5-E-1019—5 ft.....	61.00
5-E-1017—5 ft. 6 ins....	42.50	5-E-1020—5 ft. 6 ins....	66.00
Nickelplated standing bath waste and overflow china top for pedestal tubs.		Extra.....	\$5.00

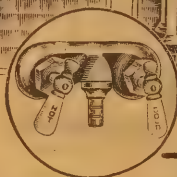


Roll Rim Enameled Tub

Double bath cock of new design a feature of the regular equipment furnished with our bath tubs.

Made of gray cast iron enameled inside and over the 3 inch roll rim. Tubs measure 30 inches wide and are fitted with nickelplated bathcock, indexed for hot and cold, nickelplated waste and overflow and nickelplated supply pipes.

5-E-1021—4 ft. 6 ins. long, complete with fittings.....	\$33.00
5-E-1022—5 ft. long, complete with fittings.....	33.00
5-E-1023—5 ft. 6 ins. long, complete with fittings.....	36.00
5-E-1024—6 ft. long, complete with fittings.....	43.00



White Porcelain Enameled Lavatories



Size of Slab, 17x19 inches; bowl, 10½x13½ inches; height of back, 6 inches.

White porcelain enameled one-piece half circled lavatory with "D" pattern bowl. Easily and quickly attached with concealed wall hangers furnished. Fitted complete with low down compression faucets with China tops marked "hot and cold." Nickel-plated 1½ inch "P" trap, supply pipes with flanges to wall. Nickel-plated chain and rubber stopper.

5-E-401. Complete as described with lead pipe connections..... **\$10.00**

5-E-403. Complete as described with iron pipe connections..... **\$10.50**

Length on sides, 16½ inches; bowl, 10½x13½ inches; height of back, 6 inches.

White porcelain enameled one-piece roll rim corner lavatory with "D" pattern bowl. Easily attached to wall with concealed wall hangers furnished. Fitted complete with nickel-plated low down compression faucets with China tops marked "hot and cold." Nickel-plated 1½ inch "P" trap, supply pipes with flanges to wall. Nickel-plated chain and rubber stopper.

5-E-601. Complete as described with lead pipe connections..... **\$13.50**

5-E-603. Complete as described with iron pipe connections..... **\$14.00**

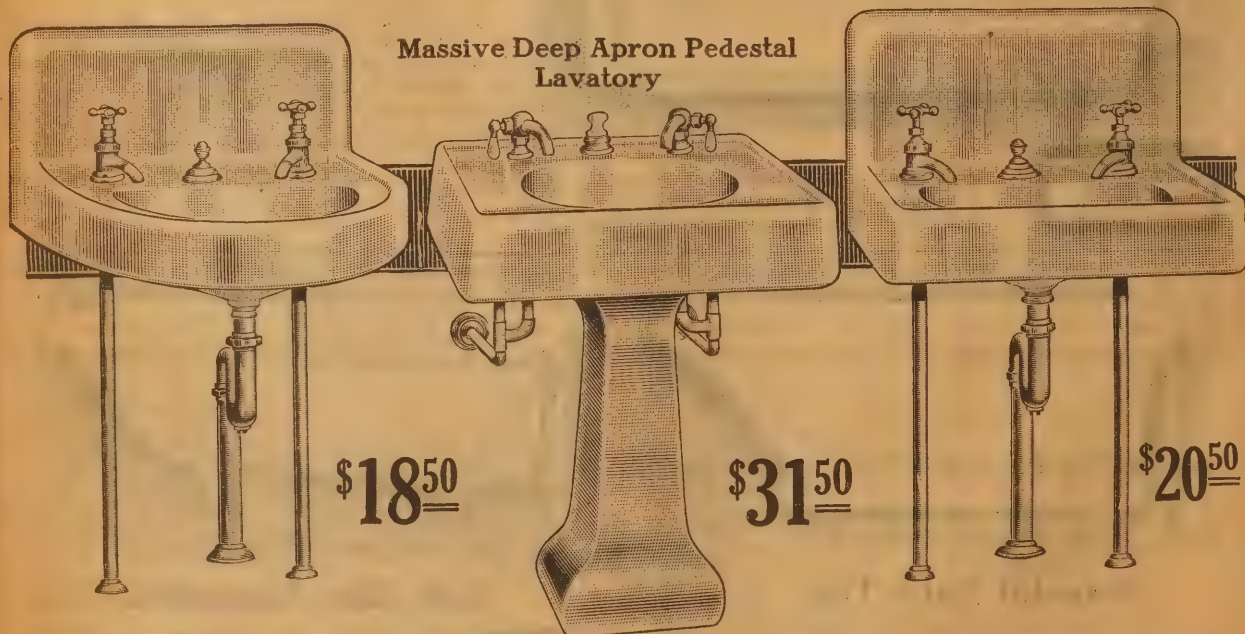
Size of Slab, 18x21 inches; bowl, 10½x14½ inches; height of back, 8 inches.

White porcelain enameled one-piece roll rim half circled lavatory with "D" pattern bowl. Easily hung with concealed wall hangers furnished. Fitted complete with two low down compression faucets with China tops marked "hot and cold." Nickel-plated 1½ inch "P" trap, supply pipes with flanges to wall. Nickel-plated chain and rubber stopper.

5-E-480. Complete as described with lead pipe connections..... **\$12.00**

5-E-482. Complete as described with iron pipe connections..... **\$12.50**

The Product of America's Leading Makers



Massive Deep Apron Pedestal Lavatory

Size of Slab, 18x21 inches; bowl, 10½x14½ inches; height of back, 8 inches.

White porcelain enameled one-piece half circled deep apron lavatory with "D" pattern bowl. Quickly and easily attached to wall with concealed wall hangers furnished. Fitted complete with two low down compression faucets with China tops marked "hot and cold." Nickel-plated 1½ inch "S" trap, supply pipes with flanges to floor. Nickel-plated lifting waste with China index.

5-E-421. Complete as described with lead pipe connections..... **\$18.50**

5-E-423. Complete as described with iron pipe connections..... **\$19.00**

Size of Slab, 20x24 inches; oval bowl, 11x15 inches; height of lavatory, 31 inches.

White porcelain enameled one-piece pedestal lavatory with oval bowl. Supported on a massive, properly proportioned white enameled pedestal. Fitted complete with nickel-plated model lifting waste with China knob and two fuller faucets with China handles, "hot and cold." Nickel-plated offset air chamber, supply pipes and 1½ inch "P" trap to wall. This is an impressive lavatory and will give your bathroom a rich appearance.

5-E-98. Complete as described with iron pipe connections..... **\$31.50**

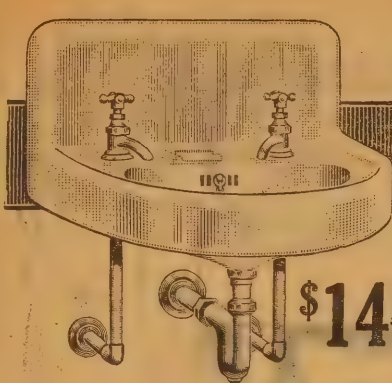
Size of Slab, 18x24 inches; bowl, 11x15 inches; height of back, 10 inches.

White porcelain enameled one-piece square deep apron lavatory with "D" pattern bowl quickly and easily attached to wall with concealed wall hangers furnished. Fitted complete with nickel-plated model lifting waste with China index and two compression faucets with China tops, marked "hot and cold." Nickel-plated 1½ inch "S" trap, supply pipes with flanges to floor.

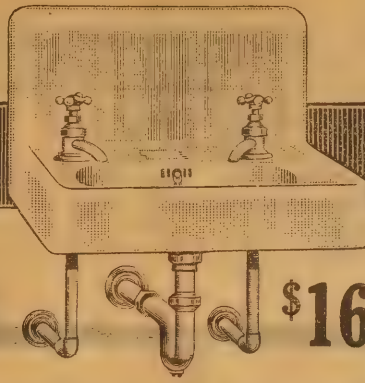
5-E-441. Complete as described with lead pipe connections..... **\$20.50**

5-E-443. Complete as described with iron pipe connections..... **\$21.00**

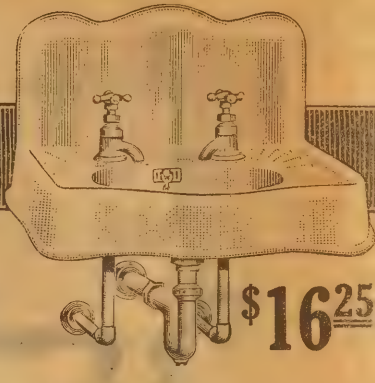
Priced Unusually Low for Big Economy



\$14⁰⁰



\$16⁰⁰



\$16²⁵

Size of Slab, 18x21 inches; bowl, 10½x14½ inches; height of back, 8 inches.

White porcelain enameled one-piece half-circled deep apron lavatory with "D" pattern bowl. Quickly and easily attached to wall with concealed wall hangers furnished. Fitted complete with two nickel-plated low down compression faucets with China tops marked "hot and cold." 1½ inch nickel-plated "P" trap, supply pipes with flanges to wall. Nickel-plated chain and rubber stopper.

5-E-411. Complete as described with lead pipe connections..... **\$14.00**

5-E-413. Complete as described with iron pipe connections..... **\$14.50**

Size of Slab, 18x24 inches; bowl, 11x15 inches; height of back, 10 inches.

White porcelain enameled one-piece square deep apron lavatory with "D" pattern bowl. Easily attached to wall with concealed wall hangers furnished. Fitted complete with two nickel-plated compression faucets with China tops marked "hot and cold." 1½ inch nickel-plated "P" trap, supply pipes with flanges to wall. Nickel-plated chain and rubber stopper.

5-E-317. Complete as described with lead pipe connections..... **\$16.00**

5-E-313. Complete as described with iron pipe connections..... **\$16.50**

5-E-314. Lavatory size 20x24 inches with fittings as described above..... **\$18.00**

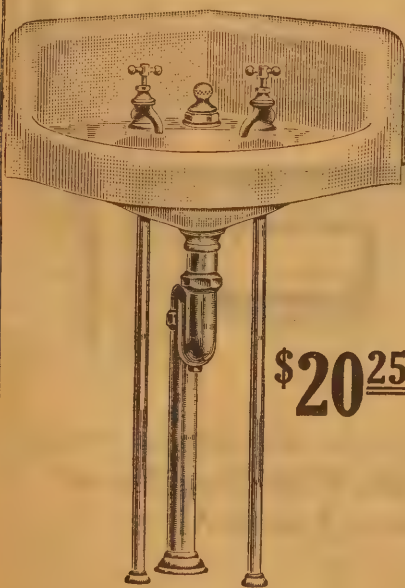
Size of Slab, 18x24 inches; bowl, 11x15 inches; height of back, 10 inches.

White porcelain enameled one-piece shapely serpentine deep apron lavatory with "D" pattern bowl. Easily attached to wall with concealed wall hangers furnished. Fitted complete with two nickel-plated compression faucets with China tops marked "hot and cold." 1½ inch nickel-plated "P" trap, supply pipes with flanges to wall. Nickel-plated chain and rubber stopper.

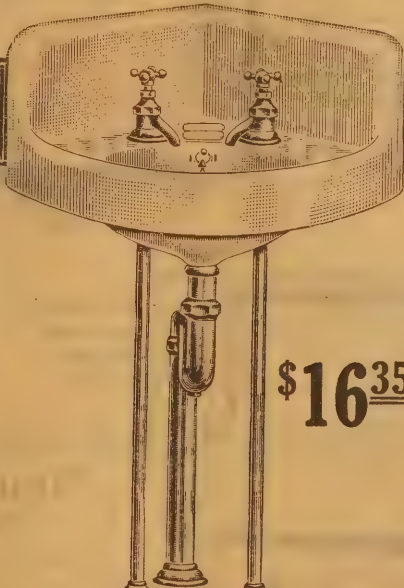
5-E-492. Complete as described with lead pipe connections..... **\$16.25**

5-E-494. Complete as described with iron pipe connections..... **\$16.75**

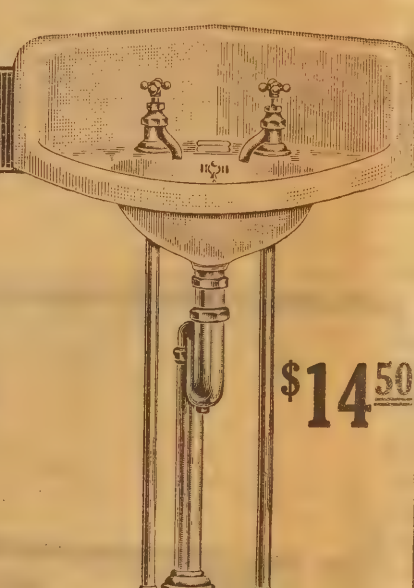
Guaranteed in Every Way to Completely Satisfy



\$20²⁵



\$16³⁵



\$14⁵⁰

Length on sides, 20 inches; bowl, 11x15 inches; height of back, 8 inches.

White porcelain enameled one-piece deep apron corner lavatory with "D" pattern bowl. Supported on concealed wall hangers which are furnished. Fitted complete with nickel-plated model waste with China index and two compression faucets with China tops marked "hot and cold." 1½ inch nickel-plated "S" trap, supply pipes with flanges to floor.

5-E-641. Complete as described with lead pipe connections..... **\$20.25**

5-E-643. Complete as described with iron pipe connections..... **\$20.75**

Length on sides, 20 inches; bowl, 11x15 inches; height of back, 8 inches.

White porcelain enameled one-piece deep apron corner lavatory with "D" pattern bowl, quickly and easily attached to wall with concealed wall hangers furnished. Fitted complete with nickel-plated compression faucets with China tops marked "hot and cold." Nickel-plated 1½ inch "S" trap, supply pipes with flanges to floor. Nickel-plated chain and rubber stopper.

5-E-621. Complete as described with lead pipe connections..... **\$16.35**

5-E-623. Complete as described with iron pipe connections..... **\$16.85**

Length on sides, 18¾ inches; bowl, 10½x14½ inches; height of back, 6 inches.

White porcelain enameled one-piece roll rim corner lavatory with "D" pattern bowl. Supported on concealed wall hangers furnished. Fitted complete with nickel-plated low down compression faucets with China tops marked "hot and cold." Nickel-plated 1½ inch "S" trap, supply pipes with flanges to floor. Nickel-plated chain and rubber stopper.

5-E-611. Complete as described with lead pipe connections..... **\$14.50**

5-E-613. Complete as described with iron pipe connections..... **\$15.00**

BEAUTIFUL ONE-PIECE KITCHEN SINKS



Double Drainboard Deep Apron Style

Elegant Kitchen Sink cast in one piece of finest quality gray iron. Enameled all over with white porcelain enamel, fitted with nickel-plated swinging mixing faucet with porcelain China handles, indexed hot and cold and porcelain China soap dish, nickel-plated brass "P" trap, cast iron porcelain enameled adjustable sink legs. These sinks can be installed 36 inches from the floor.

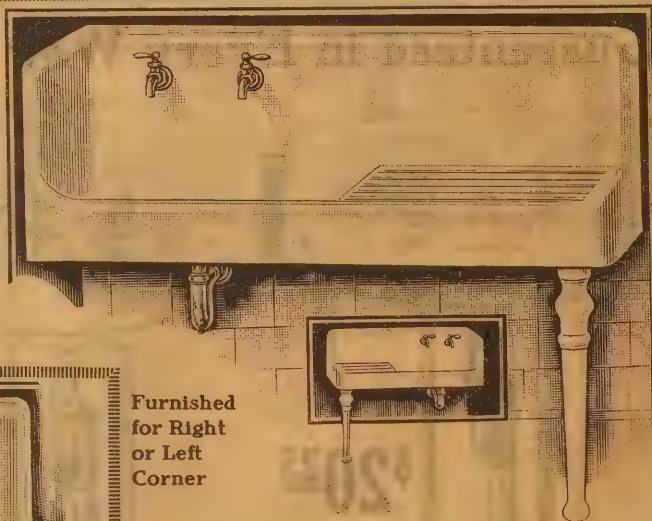
5-E-1840. Double drainboard sink, 62 inches long, with fittings as described. **\$67.00**

5-E-1841. Double drainboard sink, 73 inches long, with fittings as described. **87.00**

One-Piece Deep Apron Sink

Made in one piece, including sink, drain board, back and end piece, 12 inches high, heavily coated with white porcelain enamel on the inside and over drain board, back and 5 inch deep apron with white porcelain enamel. Sanitary style with round corners. Furnished complete with two high grade nickel-plated faucets. Nickel-plated brass "P" trap to wall. Cast iron adjustable sink leg. Attached to wall with strong concealed wall hangers which are furnished without extra charge.

- 5-E-1853.** 44 inches long, for right or left corner. Price..... **\$35.00**
- 5-E-1855.** 48 inches long, for right or left corner..... **43.00**
- 5-E-1856.** 52 inches long, for right or left corner..... **49.00**
- White Porcelain enameled sink leg, extra..... **1.50**
- 1 1/2 in. nickel plated brass trap to floor in place of "P" trap, extra **.75**



Furnished
for Right
or Left
Corner

Straight Wall One-Piece Deep Apron Sink

Sanitary kitchen sink, back and drain board cast in one piece; heavily coated on the inside and over the deep apron with white porcelain enamel. Deep apron, 5 inches wide. Furnished complete with two high grade nickel-plated faucets. Nickel-plated brass "P" trap to wall and two cast iron adjustable sink legs. Attached to the wall with strong concealed wall hangers, furnished without extra charge.

- 5-E-1846.** 44 inches long, with left or right drain board. **\$36.00**
- 5-E-1848.** 48 ins. long, with left or right drain board. **43.00**
- 5-E-1850.** 52 ins. long, with left or right drain board. **47.00**
- 1 1/2 in. nickel-plated brass trap to floor in place of "P" trap, extra..... **.75**



Furnished with
Right or Left
Drainboard

**White Porcelain Enameled
Adjustable Sink Legs Extra
\$3.00**

Latest Sanitary Decorative Models

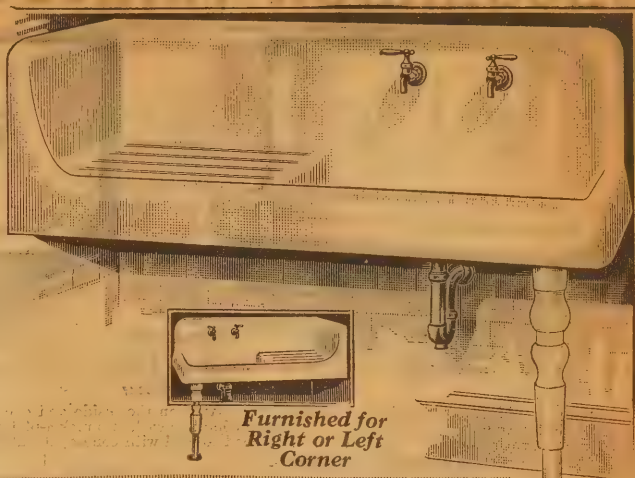
One-Piece Deep Apron Sink

An elegant kitchen sink with deep apron, back, drain board and end piece, cast in one piece. An impressive design, neat and easily cleaned—no corners or cracks to hold the grease and dirt.

Supported on adjustable painted legs, and firmly attached by concealed wall hangers.

Furnished complete with nickel-plated improved strainer, $\frac{1}{2}$ in. Fuller flange bibbs, $1\frac{1}{2}$ in. nickel plated brass trap to wall I. P. conn., and one cast iron adjustable sink leg. Three sizes, furnished with right or left end piece. Be sure to state whether right or left style is wanted when you order.

5-E-1854. 44 inches long, with right or left end piece.	
Price.....	\$35.00
5-E-1857. 48 inches long, with right or left end piece.....	\$43.00
5-E-1858. 52 inches long, with right or left end piece.....	49.00
1 $\frac{1}{2}$ inch Nickel-Plated Brass trap to floor, extra.....	.75
White porcelain enameled cast iron sink leg, extra.....	1.50

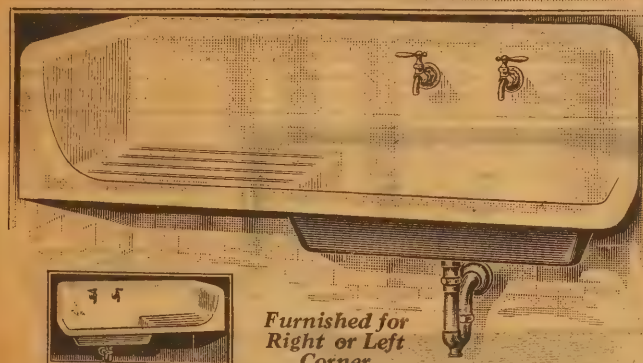


Furnished for Right or Left Corner

Roll Rim Model One-Piece Corner Sink

Splendid kitchen sink, sanitary and easy to keep clean—a roll rim sink with back drain board and end piece, all cast in one piece, heavily coated with white porcelain enamel. Furnished complete with concealed wall hangers, nickel-plated improved strainer, $\frac{1}{2}$ inch nickel-plated Fuller flange bibbs and $1\frac{1}{2}$ inch Nickel Plated Brass trap to wall I. P. conn. Furnished in three sizes with right or left end piece.

5-E-1797. 44 inches long, with right or left end piece.	
Price.....	\$30.00
5-E-1798. 48 inches long, with right or left end piece.....	\$34.00
5-E-1799. 52 inches long, with right or left end piece.....	37.00
Adjustable painted leg. Each.....	1.50
White porcelain enameled sink legs, each.....	3.00
1 $\frac{1}{2}$ inch Nickel Plated Brass trap to floor, extra.....	.75

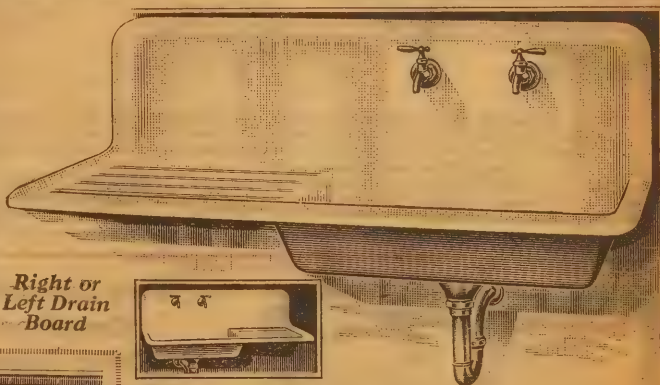


Furnished for Right or Left Corner

One-Piece Roll Rim Sink

This popular sink features all that is best in a combination sink, back and drain board cast in one piece. Heavily coated on the inside and over the back and wide roll rim with white porcelain enamel. Attached to wall with strong concealed wall hangers, furnished without extra charge. Fitted complete with two nickel plated faucets and $1\frac{1}{2}$ inch Nickel Plated Brass trap to wall I. P. conn.

5-E-1791. 44 inches long, with left or right drain board.....	\$26.00	
5-E-1793. 48 inches long, with left or right drain board.....	\$28.00	
5-E-1795. 52 inches long, with left or right drain board.....	31.00	
Adjustable painted cast iron legs. Per pair.....	3.00	<i>Right or Left Drain Board</i>
White porcelain enameled sink legs. Per pair.....	6.00	
1 $\frac{1}{2}$ inch Nickel-Plated Brass trap to floor, extra.....	.75	



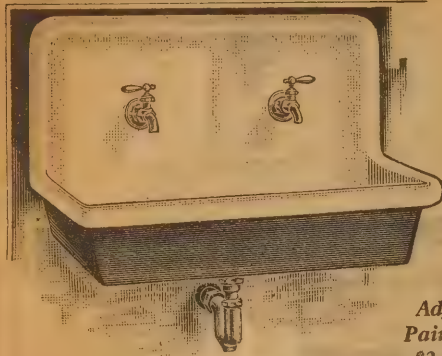
One-Piece Corner Sink

Heavily coated with white porcelain enamel. Made in one piece. Furnished complete with two nickel plated faucets and $1\frac{1}{2}$ inch Nickel Plated Brass trap to wall I. P. conn. Quickly and easily attached to wall with strong concealed wall hangers which are furnished without extra charge.

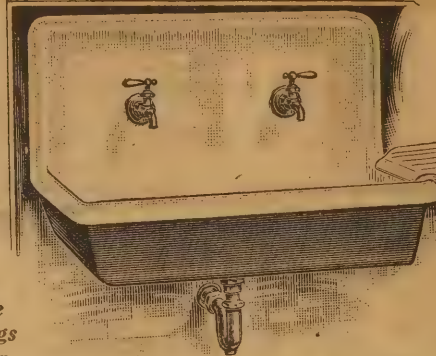
5-E-1792. 44 inches long, for right or left corner.....	\$30.00
5-E-1794. 48 inches long, for right or left corner.....	\$34.00
5-E-1796. 52 inches long, for right or left corner.....	37.00
Adjustable painted cast iron legs. Each.....	1.50
White porcelain enameled sink leg, each.....	3.00
1 $\frac{1}{2}$ inch Nickel-Plated Brass trap to floor, extra.....	.75

Right or Left Corner

Uncommon Values in Kitchen Sinks



**Two
Adjustable
Painted Legs
\$3.00 Extra**



**One-Piece Sink
Fitted With
Enameled
Drainboard**



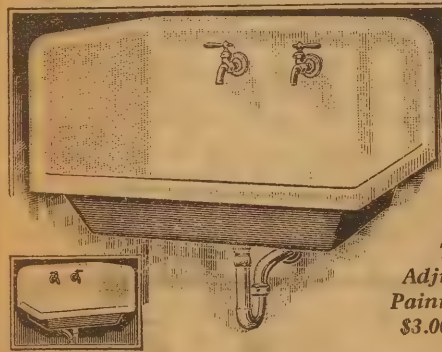
Made of smooth gray iron heavily coated on the inside and over the rim and back with white porcelain enamel; very neat, attractive and easy to clean. Furnished complete with two nickel-plated $\frac{1}{2}$ -inch flanged plain faucets, nickel-plated sink strainer and $1\frac{1}{2}$ -inch lead "P" trap to wall. Attached to wall with concealed wall hangers.

Prices Without Drainboard

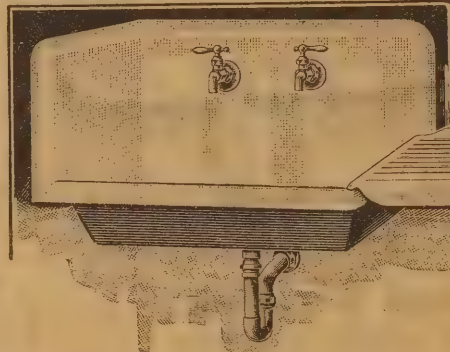
Number.	Size of Sink.	Price.
5-E-1631.	18x24 inches.	\$14.50
5-E-1632.	20x24 inches.	15.00
5-E-1635.	18x30 inches.	15.50
5-E-1639.	20x30 inches.	16.50
5-E-1643.	20x36 inches.	18.50
5-E-1644.	22x36 inches.	20.00
5-E-1645.	22x42 inches.	22.00

Complete With Drainboard

Number.	Size of Sink.	Size of Drainboard.	Price.
5-E-1675.	18x24 inches.	18x20 inches.	\$19.00
5-E-1677.	20x24 inches.	20x20 inches.	21.00
5-E-1679.	18x30 inches.	18x24 inches.	20.50
5-E-1681.	20x30 inches.	20x24 inches.	22.00
5-E-1683.	20x36 inches.	20x24 inches.	24.00



**Two
Adjustable
Painted Legs
\$3.00 Extra**



**Corner Sink
With Enameled
Drainboard**



Heavily coated with white porcelain enamel on the inside and over the rim and back; no crevices or corners to catch the dirt. Back and end piece are 12 inches high. Furnished complete with nickel-plated strainer, $\frac{1}{2}$ -inch nickel-plated faucets and $1\frac{1}{2}$ -inch lead "P" trap to wall. Attached to wall with substantial concealed wall hangers.

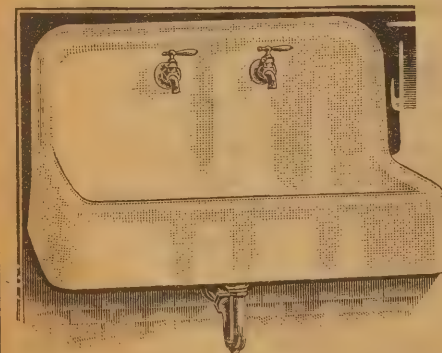
Prices Without Drainboard

5-E-1633.	Furnished complete as described, size 20x24 ins.	\$20.00
5-E-1634.	Furnished complete as described, size 20x30 ins.	21.75
5-E-1636.	Furnished complete as described, size 20x36 ins.	24.00

Complete With Drainboard

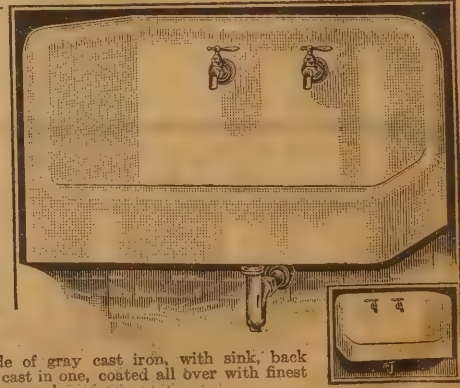
5-E-1676.	Furnished complete as described, size 20x24 ins.	\$26.00
5-E-1680.	Furnished complete as described, size 20x30 ins.	28.00
5-E-1682.	Furnished complete as described, size 20x36 ins.	30.00

If you intend to install the sink yourself, specify iron pipe connection and add 75¢ to prices above.



**Two Attractive
One-Piece
Deep Apron
White Porcelain
Enameled
Kitchen Sinks**

\$21⁵⁰ \$26⁵⁰



5-E-1638. Made of gray cast iron, with sink, back and corner piece cast in one, coated all over with finest quality porcelain enamel.

Sink furnished for either right or left corner. Fittings consist of 2 nickel-plated $\frac{1}{2}$ -inch sink bibbs, nickel-plated strainer, nickel-plated brass "P" trap and concealed wall hangers.

5-E-1637. Sink Apron, and back all cast in one piece. Enameled all over with finest quality white porcelain enamel.

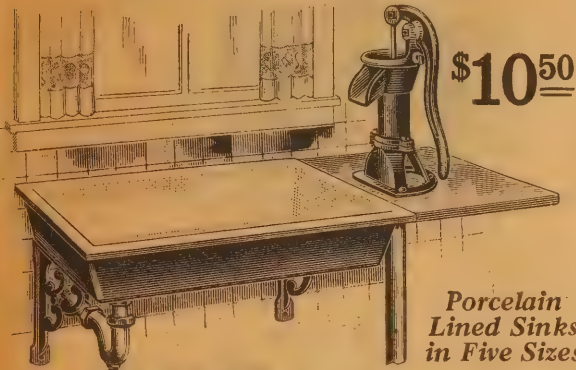
Sink furnished with two nickel-plated $\frac{1}{2}$ -inch sink bibbs, nickel-plated brass trap to wall, nickel-plated strainer, concealed wall hangers.

Size, 18x30 inches. Complete with fittings. \$21.50
Size, 20x30 inches. Complete with fittings. 24.50

Size, 18x30 inches. Complete with fittings. \$26.50
Size, 20x30 inches. Complete with fittings. 27.75

Kitchen Sink Outfits and Accessories

Complete Kitchen Sink Outfit With Pitcher Spout Pump

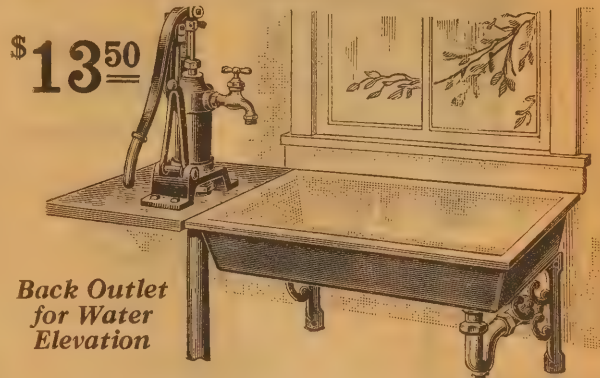


**Porcelain
Lined Sinks
in Five Sizes**

This kitchen sink outfit is identically the same as the one opposite except that we furnish a brass lined pitcher spout pump fitted for 1 inch iron pipe connection.

5-E-1601. Outfit complete with 18 in. x 30 in. sink with iron pipe connection.....	\$10.50
5-E-1604. Outfit complete with 18 in. x 36 in. sink with iron pipe connection.....	12.15
5-E-1605. Outfit complete with 20 in. x 30 in. sink with iron pipe connection.....	11.35
5-E-1607. Outfit complete with 20 in. x 36 in. sink with iron pipe connection.....	13.30
5-E-1609. Outfit complete with 20 in. x 40 in. sink with iron pipe connection.....	15.60

Complete Kitchen Sink Outfit With Brass Lined Force Pump

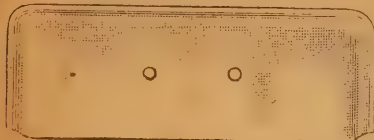


**Back Outlet
for Water
Elevation**

High grade flat rim cast iron porcelain lined sink fitted with nickel-plated strainer and 1 1/2 inch lead "P" trap with outlet to wall, fitted for 1 1/2 inch iron pipe connection. Sink has two brackets. Force pump is made with 2 1/2 inch brass lined cylinder with air chamber, insuring a steady flow of water. Pump is fitted for 1 1/2 inch suction pipe. Back outlet of pump fitted for 1 inch pipe, to elevate water to floors above. Attach hose to faucet for sprinkling or fire protection. Pump board not included.

5-E-1621. Kitchen sink outfit complete with sink size 18 in. x 30 in. with iron pipe connections.....	\$13.50
5-E-1623. Kitchen sink outfit complete with sink size 18 in. x 36 in. with iron pipe connections.....	15.25
5-E-1625. Kitchen sink outfit complete with sink size 20 in. x 30 in. with iron pipe connections.....	14.45

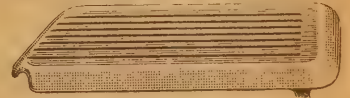
White Enameled Sink Backs



5-E-1718. Designed for use with flat rim sinks drilled for two faucets. Size 12 in. high and 2 1/4 in. deep.

Size 24 in. long.....	\$3.85	Size 36 in. long.....	\$6.15
Size 30 in. long.....	4.20	Size 40 in. long.....	6.75

White Enameled Drain Boards

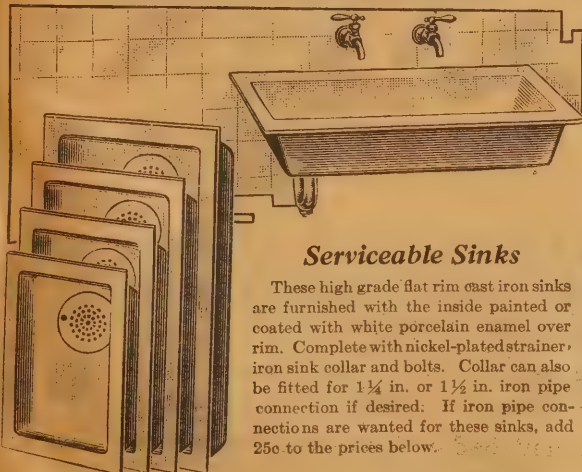


5-E-1730. Interchangeable and can be used on either end of sink. Furnished complete with cast iron bracket.

SIZES AND PRICES

18 x 18 inches.....	\$5.35
18 x 20 inches.....	5.75
18 x 24 inches.....	6.15
20 x 20 inches.....	6.50
20 x 24 inches.....	6.65

Flat Rim Cast Iron Sinks Painted or White Enameled



Serviceable Sinks

These high grade flat rim cast iron sinks are furnished with the inside painted or coated with white porcelain enamel over rim. Complete with nickel-plated strainer, iron sink collar and bolts. Collar can also be fitted for 1 1/4 in. or 1 1/2 in. iron pipe connection if desired. If iron pipe connections are wanted for these sinks, add 25c to the prices below.

Painted Sinks

5-E-1701. Size 18x24...	\$3.35
5-E-1702. Size 18x30...	3.55
5-E-1703. Size 18x36...	4.20
5-E-1704. Size 20x30...	4.00
5-E-1705. Size 20x36...	4.70
5-E-1706. Size 20x40...	5.40

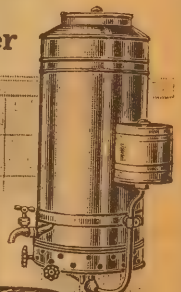
Enameled Sinks

5-E-1709. Size 18x24...	\$6.00
5-E-1710. Size 18x30...	5.80
5-E-1711. Size 18x36...	8.45
5-E-1712. Size 20x30...	6.45
5-E-1713. Size 20x36...	9.25
5-E-1714. Size 20x40...	12.25

Complete Bath Outfit for Homes Without Running Water

Composed of a high grade gasoline water heater with copper bottom and water coil. Sufficient water for bath heated in fifteen minutes. Tub furnished is made of heavy steel smoothly coated on the inside and capped with nicely finished oak top rim. Cast iron legs, equipped with connected waste and overflow fitted for 1 1/4 inch pipe.

5-E-1811. Complete with tub 4 1/2 ft. long for iron pipe connection.....	\$26.00
5-E-1813. Complete with tub 5 ft. long for iron pipe connection.....	\$26.25



Prices for Bath Tub Only

5-E-1801. Tub only, 4 ft. 6 in. long. Each.....	\$10.85
5-E-1803. Tub only, 5 ft. long. Each.....	11.25
5-E-1805. Tub only, 5 ft. 6 in. long. Each.....	11.70
5-E-1807. Tub only, 6 ft. long. Each.....	12.35

If Fuller double bath cock to fit tub is wanted, add \$3.30. If nickel-plated 1/2 inch supplies for iron pipe connections are wanted, add, per pair, \$2.00

High and Low Tank Closet Outfits

Wash Down Type Closet Outfit



\$20⁰⁰

Complete as Shown

**Copper Lined
Golden Oak
Tank**

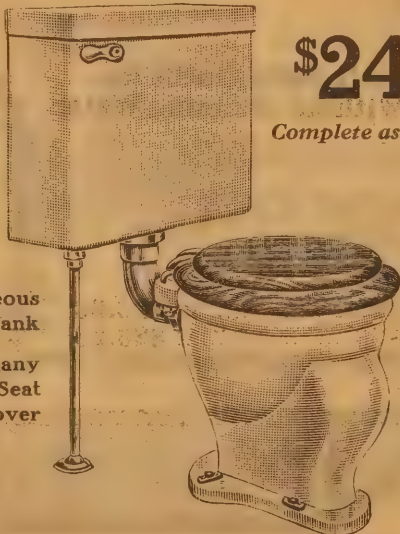
**Seat and Cover
Finished to
Match**

Low tank closet outfit complete of dependable quality. Includes high grade tank finished in either polished golden oak or rich mahogany as desired; lined with heavy copper and fitted with rubber ball valve, which is operated by a push button; best interior fittings. Smooth white vitreous earthenware wash down type bowl. Seat and cover finished to match tank; nickel-plated elbow and supply pipe.

5-E-801. Complete as described, with seat and tank finished in golden oak, for lead pipe connections..... **\$20.00**

5-E-803. Complete as described, with seat and tank finished in golden oak, for iron pipe connections..... **\$20.50**

Wash Down Type Closet Outfit



\$24⁰⁰

Complete as Shown

**White Vitreous
China Tank**

**Mahogany
Finished Seat
and Cover**

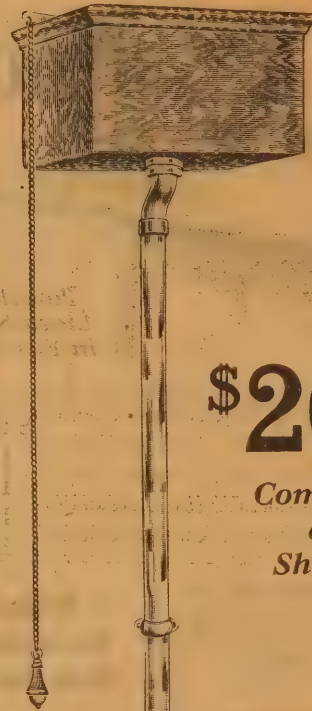
Low tank closet outfit complete of excellent quality. Includes handsome white vitreous china tank with best interior fittings to insure a strong positive flush at all times; operated by white china lever. Shapely white vitreous earthenware wash down closet bowl glazed inside and out. Seat and cover finished in rich mahogany attached to bowl with heavy nickel-plated offset hinges. Nickel-plated elbow and supply pipe.

5-E-1001. Complete as described, with rich mahogany seat and cover, for lead pipe connections..... **\$24.00**

5-E-1003. Complete as described, with seat and cover finished in rich mahogany, for iron pipe connections..... **\$24.50**

Wash Down Type Closet Outfit

Top or Bottom Supply



\$20⁰⁰

*Complete
as
Shown*

**Copper Lined
Golden Oak
Tank**

**Seat and Cover
Finished to
Match**

Top supply high tank closet outfit complete offering substantial value. Includes highly finished golden oak tank lined with heavy copper; fitted with an improved valve insuring a strong flush operated by nickel-plated chain. White vitreous earthenware wash down type closet bowl of neat pattern. Golden oak seat and cover finished to match tank attached to bowl with heavy nickel-plated offset hinges. One and a quarter inch nickel-plated flush pipe and 1 1/4 inch N. P. elbow, to connect flush pipe to bowl.

5-E-1101. Complete as described, for lead pipe connections..... **\$20.00**

5-E-1103. Complete as described, for iron pipe connections..... **\$20.50**

Furnished with Bottom Supply High Tank

The high tank closet outfit above is also furnished for bottom supply, complete with heavy copper-lined, highly polished golden oak tank, wash down type, white vitreous earthenware closet bowl fitted with seat and cover finished to match tank and equipped with 1 1/4 inch nickel-plated offset hinges, and a quarter inch nickel-plated flush pipe from tank to floor.

5-E-1111. Complete as described, for bottom supply with lead pipe connections..... **\$25.00**

5-E-1115. Complete as described, for bottom supply with iron pipe connections..... **\$25.50**

Priced Very Low for Big Economy!

Syphon Jet Type Closet Outfit Top or Bottom Supply



\$25⁰⁰

*Complete as
Shown*



**Copper Lined
Golden Oak
Tank**

**Seat and
Cover
Finished to
Match**

Top supply high tank closet outfit complete of improved design. Includes heavy copper lined highly finished golden oak tank equipped with latest improved valve and operated by a nickel-plated chain puller. Latest pattern Syphon jet bowl made of white vitreous earthenware highly glazed both inside and out. Seat and cover in golden oak finished to match the tank and attached to bowl with heavy nickel-plated offset hinges. 1 1/4-inch nickel-plated flush pipe.

5-E-1201. Complete as described with lead pipe connections.....	\$25.00	5-E-1203. Complete as described with iron pipe connections.....	\$25.50
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Furnished with Bottom Supply High Tank

The high tank closet outfit above is also furnished for bottom supply, complete with heavy copper-lined highly polished golden oak tank. Syphon jet type bowl fitted with seat and cover finished to match tank and equipped with 1 1/4-inch nickel-plated flush pipe from tank to bowl; 3/8-inch nickel-plated supply pipe from tank to floor.

5-E-1211. Complete as described for bottom supply with lead pipe connections.....	\$26.00	5-E-1215. Complete as described for bottom supply with iron pipe connections.....	\$26.50
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Syphon Jet Type Closet Outfit

\$24⁰⁰

*Complete as
Shown*



**Copper
Lined
Golden
Oak Tank**

**Seat and
Cover
Finished to
Match**

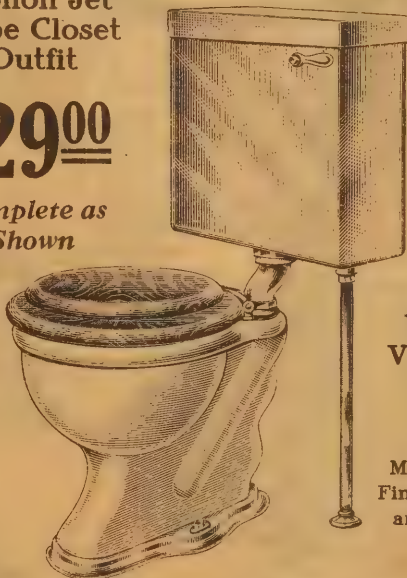
Low tank closet outfit complete of improved design. Includes finest tank highly finished in either polished golden oak or rich mahogany; lined with heavy copper and fitted with best improved valve, insuring a strong flush of water with a light touch of the push button. Latest pattern white vitreous earthenware Syphon jet closet bowl. Seat and cover finished to match tank; attached to bowl with heavy nickel-plated offset hinges. Nickel-plated offset and supply pipe.

5-E-811. Complete as described with golden oak tank and seat for lead pipe connections.....	\$24.00	5-E-813. Complete as described with golden oak tank and seat for iron pipe connections.....	\$24.50
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Syphon Jet Type Closet Outfit

\$29⁰⁰

*Complete as
Shown*



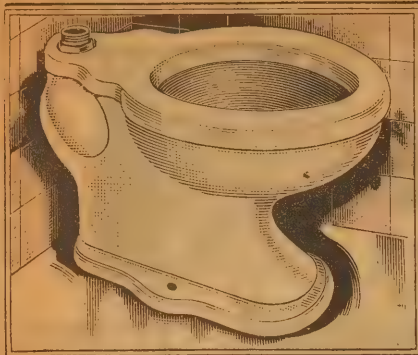
**White
Vitreous
China
Tank**

**Mahogany
Finished Seat
and Cover**

Low tank closet outfit complete of finest quality. Includes beautiful highly polished white vitreous china tank; easily kept clean. Fitted with latest improved rubber ball valve flush system made with fittings of heavy brass and copper; positive flush to bowl with light pressure on white china handle. White vitreous earthenware improved Syphon jet bowl glazed both inside and out. Rich mahogany finished seat and cover attached to bowl with heavy nickel-plated offset hinges. Nickel-plated offset and supply pipe.

5-E-1021. Complete as described with lead pipe connections.....	\$29.00	5-E-1023. Complete as described with iron pipe connections.....	\$29.50
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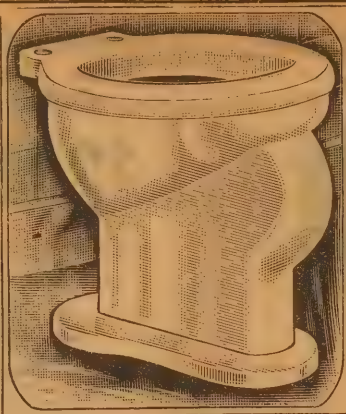
Closet Bowls—Tanks and Seats



Syphon Jet Bowl

Syphon Jet Closet Bowl for low and high tank outfits. Made of finest grade of Vitreous earthenware with highly glazed white finish inside and out. Most sanitary type, easily kept clean. Weight, about 60 pounds.

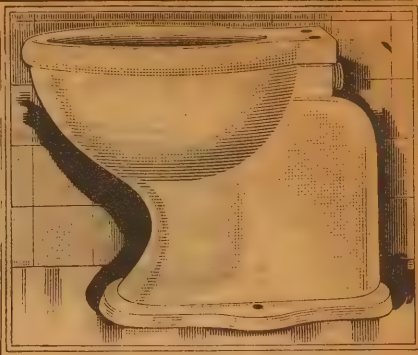
5-E-1303. With 2-inch spud for low closet tanks. Price..... **\$13.00**
5-E-1307. With 1½-inch spud for high closet tanks. Price..... **\$13.00**



Syphon Action Bowl

Syphon action wash down closet bowls for low and high tank outfits. Made of the best grade of Vitreous earthenware, with highly glazed finish, sanitary and easily kept clean. Weight, about 50 lbs.

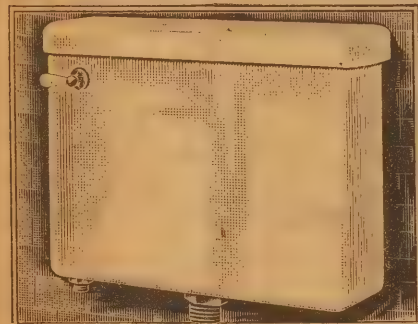
5-E-1301. With 2-in. spud for low closet outfits..... **\$8.00**
5-E-1305. With 1½-in. spud for high closet outfits..... **\$8.00**



Reverse Trap Bowl

Improved design wash-down Closet Bowl with reverse trap made of the highest grade Vitreous earthenware, finished with a high glaze. The design and construction of these bowls is considered the most sanitary closet bowls manufactured. Weight, 50 pounds.

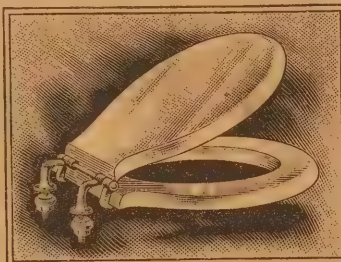
5-E-1304. With 2-inch spud for low closet tanks. Price..... **\$9.00**
5-E-1306. With 1½-inch spud for high closet tanks. Price..... **\$9.00**



White China Tank

White Vitreous China Low Pattern Closet Tank. New, plain front design, round corners with flat shelf top.

5-E-1336. White Vitreous China Low Pattern Closet Tank. New, plain design, with rounded corners and flat shelf top. Quickly and easily hung with patent wall attachment. Will not crack, craze or leak—no linings—easily cleaned. Improved rubber ball valve. Heavy brass and copper fittings. Valve operated by white China lever. Furnished complete with ball cock, float valve and overflow; nickel plated supply pipe to floor and closet ell. Weight, about 60 pounds. Price..... **\$14.00**



Pearl White Seat

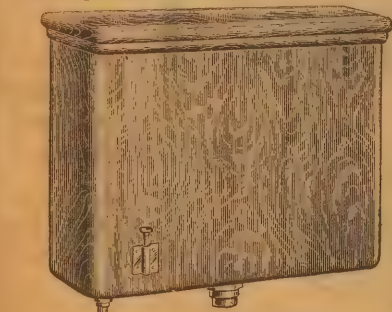
5-E-1310. These seats are exceptionally well constructed of hardwood and coated with a composition which is guaranteed not to chip or turn color. Furnished with nickel-plated bar hinge of heavy cast brass. Shipping weight, 15 lbs.

Price..... **\$7.00**



Cast Iron White Tank

5-E-1334. These tanks are made of a heavy gray iron casting, coated with white porcelain enamel inside and out. They are unquestionably the most durable closet tank manufactured. Valve is operated with a China lever in front of the tank. Furnished with submerged ball cock, copper float valve and overflow, nickel-plated supply pipe to floor and nickel-plated closet ell. Weight, about 90 pounds. Price..... **\$13.50**



Oak Closet Tank

5-E-1326. Made of golden oak, highly polished; nickel plated push button. Fitted complete with Douglas pattern valve. Lined to water level with heavy sheet copper, capped off with heavy galvanized iron. Complete with ¾-inch nickel-plated supply pipe and nickel-plated floor flange. Shipping weight, about 45 lbs. 8 gallons. Price..... **\$9.00**



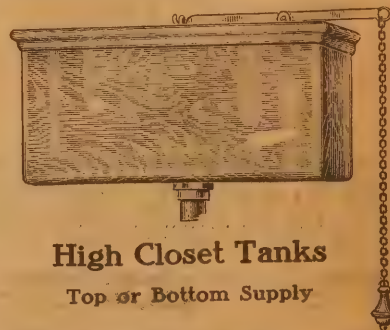
Mahogany Finished Seat

5-E-1312. Seat made of birch heavily constructed and reinforced. Beautiful Mahogany finish, furnished with cast brass nickel-plated bar hinge. Shipping weight, 15 lbs. Price..... **\$3.50**



Oak Closet Seat

5-E-1311. Made of selected Oak heavily constructed and reinforced. Finished with a beautiful Golden Oak finish. Furnished with heavy cast brass nickel-plated bar hinge. Shipping weight, 15 lbs. Price..... **\$3.40**



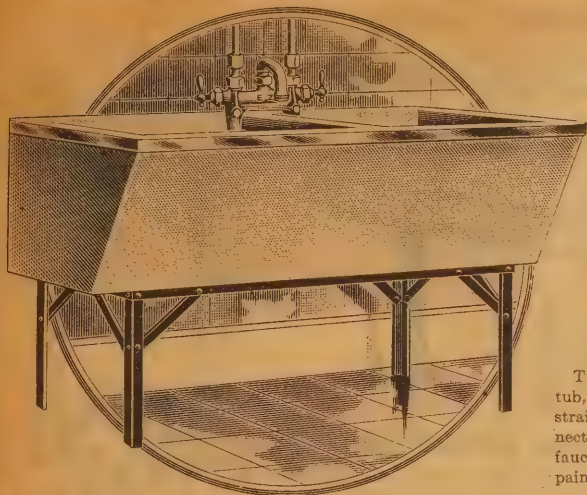
High Closet Tanks

Top or Bottom Supply

Made of the best golden oak, highly polished. Attached to wall by concealed wall hangers. Furnished with nickel-plated chain and pull. Lined with heavy sheet copper, nickel plated flush pipe connection. Weight, about 30 lbs.

5-E-1315. High Tank Complete. Price, bottom supply..... **\$8.00**
5-E-1317. Tank, same as above. Price, top supply..... **\$8.00**

Composition Stoneware Laundry Tubs



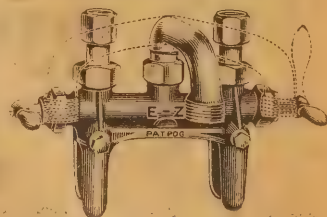
These laundry tubs are smoothly moulded in one solid piece from a composition of Portland cement and crushed granite. All designs with and without backs are made with rounded corners—sanitary and easily kept clean. They are fitted with a rust-proof metal top rim to protect them against chipping. Fitted complete with brass strainer, rubber plug and waste connection cast in the tub, which prevents leaky connections supported by painted steel stand. Polished brass $\frac{1}{2}$ in. plain flanged wash tray bibbs are furnished. We will furnish $1\frac{1}{2}$ " nickel plate brass P trap to wall. I P conn. for \$1.50 extra.

2-Part Tubs

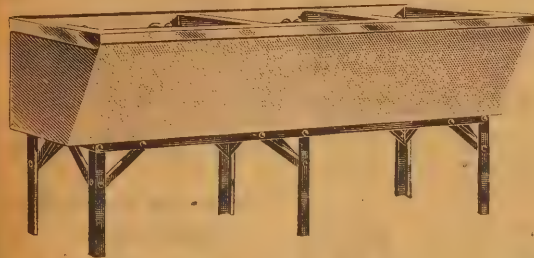
Two-part composition laundry tub, fitted complete with brass strainer, rubber plugs, waste connection and improved mixing faucet opposite; supported by painted steel stand.

Order No.	Length inches	Width inches	Depth inches	Weight pounds	Price
5-E-1907	48	24	16	400	\$16.00
5-E-1908	54	24	16	450	18.00
5-E-1909	60	24	16	475	20.00

Mixing Faucet



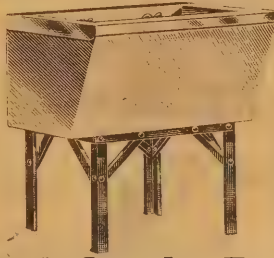
5-E-1917. Laundry tub water mixing faucet with swinging spout, which mixes water to right temperature and distributes the flow to both compartments. Makes installation of your laundry tubs quick and economical; saves at least 6 hours in installation time and more than its cost in fittings alone.
Price, each. **\$3.50**



3-Part Laundry Tubs

Three-part composition laundry tub fitted complete with brass strainers, rubber plugs, waste connections and three pair of polished brass $\frac{1}{2}$ inch flanged wash tray bibbs; supported by painted steel stand.

Order No.	Length inches	Width inches	Depth inches	Weight pounds	Price
5-E-1913	72	24	16	600	\$22.50

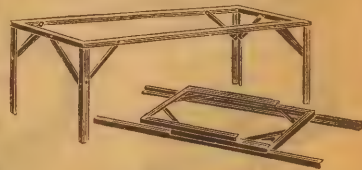


Single Laundry Tub

Single composition laundry tub fitted complete with brass strainer, rubber plug, waste connection and one pair of polished brass $\frac{1}{2}$ inch flanged wash tray bibbs; supported by painted steel stand.

Order No.	Lg.	Wd.	Dp.	Wt.	Price
5-E-1901	25	24	16	200	\$ 9.00
5-E-1902	27	24	16	225	10.00
5-E-1903	31	24	16	250	10.50

Angle Steel Stand



Neat, strong folding angle steel stands are furnished with all of our laundry tubs—a decided improvement over the shaky, unsightly old style cast-iron legs. Your laundry tub set on this improved base will stand solid and rigid. Made of 1-inch angle iron with steel braces, painted black. Easy to set up, fold or open. There is no additional charge for this improvement.

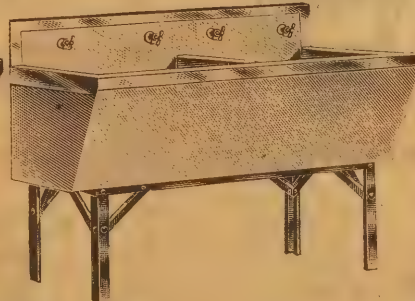
Desirable High Back Laundry Tubs



3-Part Laundry Tubs

High back three-part composition laundry tub fitted complete with brass strainers, rubber plugs, waste connections and three pairs of polished brass $\frac{1}{2}$ inch flanged wash-tray bibbs; supported by painted steel stand.

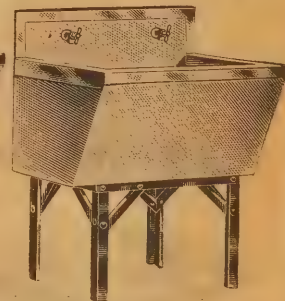
Order No.	Length ins.	Width ins.	Depth ins.	Weight lbs.	Price
5-E-1916	72	24	16	650	\$28.00



2-Part Laundry Tubs

High back two-part composition laundry tub fitted complete with brass strainers, rubber plugs, waste connection and two pairs of polished brass $\frac{1}{2}$ inch flanged wash tray bibbs; supported by painted steel stand.

Order No.	Length ins.	Width ins.	Depth ins.	Weight lbs.	Price
5-E-1910	48	24	16	450	\$18.00
5-E-1911	54	24	16	500	22.00
5-E-1912	60	24	16	525	24.00



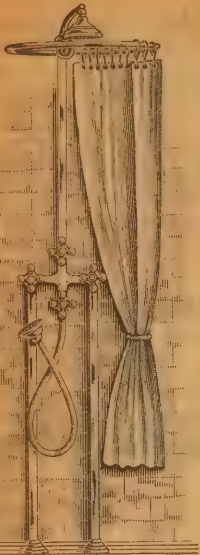
Single Laundry Tub

High back single composition laundry tub, fitted complete with brass strainer, rubber plug, waste connection and one pair of polished brass $\frac{1}{2}$ -in. flanged wash-tray bibbs; supported by painted steel stand.

Order No.	Lg.	Wd.	Dp.	Wt.	Price
5-E-1904	25	24	16	225	\$10.00
5-E-1905	27	24	16	250	11.00
5-E-1906	31	24	16	275	12.50

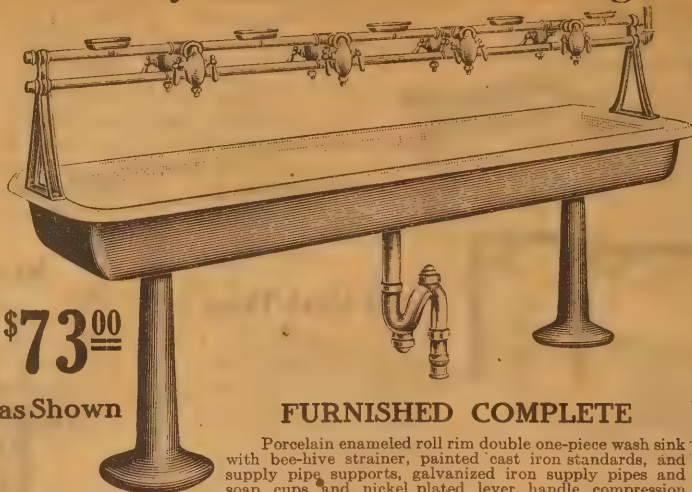
Miscellaneous Plumbing Articles at a Saving

Factory Sinks at Great Savings



\$73⁰⁰

as Shown



FURNISHED COMPLETE

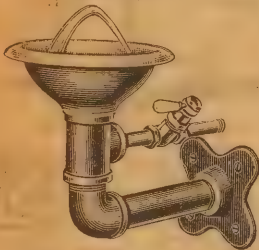
Porcelain enameled roll rim double one-piece wash sink with bee-hive strainer, painted cast iron standards, and supply pipe supports, galvanized iron supply pipes and soap cups and nickel plated lever handle compression double wash sink faucets, with stream regulators. Width of sink, 28 inches. Depth, 8 inches.

5-E-2519.	4 ft. long, enameled inside, with 4 faucets.....	\$73.00
5-E-2521.	6 ft. long, enameled inside, with 6 faucets.....	89.00
5-E-2526.	8 ft. long, enameled inside, with 8 faucets.....	110.00
Same as above, with 1/2 in. Compression Faucets.		
5-E-2518.	4 ft. long, complete with 8 faucets.....	\$69.00
5-E-2520.	6 ft. long, complete with 12 faucets.....	82.00
5-E-2525.	8 ft. long, complete with 16 faucets.....	99.50

Shower Outfit

5-E-3071. Nickel Plated Brass Shower Bath with Head Shower and Shampoo Attachment, Rubber Hose and Sprinkler, 1/2 inch Supply Pipes to floor with check valves, China Indexed Controlling Valves and Duck Curtain..... **\$25.00**

Ajax Bubbling Fountain

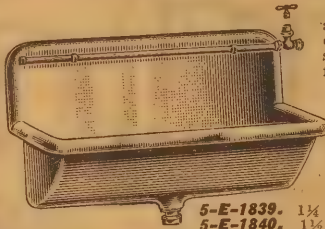


This bowl is similar in construction to our Let No. 5-E-2510, excepting that the waste and supplies go to the wall instead of to the floor. It is adapted for places where economy of space is desired. It is equipped with nickel plated, self-closing stop with lever handle.

Lot No. 5-E-2515. Bowl painted outside and enameled inside..... **\$11.25**

5-E-2516. Bowl enameled inside and outside..... **\$12.60**

Porcelain Enamel Urinals—Roll Rim \$15.75



Porcelain enameled roll rim urinals, all in one piece. They are supported on concealed wall hangers and have beehive strainer and coupling and perforated flush pipe with loose key stop.

Prices	
5-E-1833.	Size, 24 inches long..... \$15.75
5-E-1834.	Size, 30 in. long..... \$18.00
5-E-1835.	Size, 36 in. long..... 20.40
5-E-1836.	Size, 42 in. long..... 22.70
5-E-1837.	Size, 48 in. long..... 25.00
5-E-1838.	Size, 60 in. long..... 32.00
5-E-1839.	1 1/4 inch Nickel Plated P Trap..... 2.30
5-E-1840.	1 1/2 inch Nickel Plated P Trap..... 2.60

Enameled Roll Rim Slop Sinks

Order No. 5-E-1091. Porcelain enameled roll rim slop sink, with back, all in one piece, on trap, standard, with cleanout and waste to wall 12 in. high roll rim back, outlet threaded for 2 in. iron pipe.

Size—16x20x12—Enameled inside only.....	\$23.60
Size—18x22x12—Enameled inside only.....	\$27.35
Size—20x24x12—Enameled inside only.....	30.70
Extra for 2—3/4 in. Nickel-Plated Fuller Flange Bibbs.....	3.50



Shower Outfit

5-E-3069. Polished aluminum portable shower bath with heavy duck curtain. Portable and adjustable to various heights. Furnished complete as pictured with "hold fast" rubber bulb, and rubber hose to 1/2 in. pure aluminum feed pipe.

Shipping weight, 10 lbs. **\$8.75**
Complete outfit.....

Hercules Bubbling Fountains

This beautiful, up-to-date Sanitary Drinking Fountain is a very practical one. It is very simple in construction and easy to put up, meeting the demands of all.



Lot No. 5-E-2510. Bowl painted outside and enameled inside..... **\$12.30**
Bowl enameled outside and inside..... **\$13.65**

Premier Slop Hopper

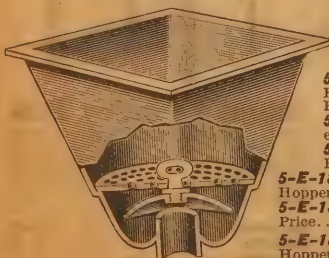
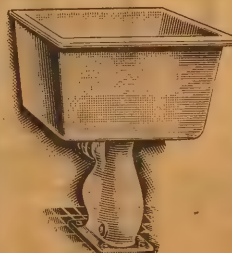


Illustration shows our "Premier" painted and enameled iron Slop Hopper. It is furnished complete as shown and made of the very best material, and made in three sizes.

5-E-1865.	Size 12x12 inches. Painted Hopper. Price.....	\$4.55
5-E-1866.	Size 12x12 inches. Enameled Hopper. Price.....	\$5.95
5-E-1867.	Size 14x14 inches. Painted Hopper. Price.....	\$5.10
5-E-1868.	Size 14x14 inches. Enameled Hopper. Price.....	\$6.40
5-E-1869.	Size 16x16 inches. Painted Hopper. Price.....	\$5.65
5-E-1870.	Size 16x16 inches. Enameled Hopper. Price.....	\$6.90
Tapped for 2 inch Iron Pipe.....		.75c

Enameled Iron Flat Rim Slop Sink



5-E-1877. Illustration shows our enameled iron flat rim Slop Sinks, which are furnished on the trap standard with cleanout and brass vent connections.

Prices	
Size 16x16x10 inches.....	\$14.50
16x20x12 inches.....	\$16.15
18x22x12 inches.....	18.20
20x22x12 inches.....	19.90
20x24x12 inches.....	20.75

They are shipped from our factory in Southern Wisconsin

Hot Water Storage Tanks

Galvanized Range Boilers Standard Weight

Guaranteed full weight. Tested to a working pressure of 150 pounds. Furnished complete with stand, galvanized inside tube and malleable iron couplings. Opening at top for cold water intake and hot water outlet. Opening at bottom for drain for use where average pressure is not over 85 pounds.

Extra Heavy

Heavier and more substantial than our standard range boilers. Tested to 250 pounds working pressure. Recommended for use where working pressure is not over 150 pounds.

Please Note:

Range boilers can only be used where there is a constant water supply under pressure. Openings are arranged with couplings for connection to stove or furnace for hot water supply from your faucets.

No. 5-E-2101 Standard Boilers

Cap. Gals.	Ht. in. Boiler	Ht. in. Incl. Stand	Wt. Lbs.	Boiler only	Price, comp.
30	60	75	72	\$ 9.00	\$11.00
40	60	75	85	11.50	13.50
52	60	75	120	19.00	22.00

No. 5-E-2109 Extra Heavy Boilers

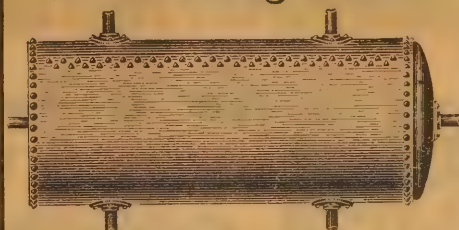
Cap. Gals.	Ht. in. Boiler	Ht. in. Incl. Stand	Wt. Lbs.	Boiler only	Price, comp.
30	60	75	87	\$12.25	\$14.25
40	60	75	100	15.50	17.50
52	60	75	135	28.00	31.50

Cast Iron Stand for Range Boilers

These stands are made of high grade gray cast iron. They are extra strong and are made to carry an overload far beyond the capacity we list. The height is 15 inches.

Order No.	Diam. Stand	For Boiler	Price, Each
5-E-2117	12-in.	30 gal.	\$0.70
5-E-2121	14-in.	40 gal.	.70
5-E-2123	16-in.	52 gal.	1.75

Water Storage Tanks



Order No. 5-E-2705

These splendid storage tanks are made up of finest quality steel plate, securely joined, heavily and closely riveted throughout. Shell head of $\frac{1}{2}$ inch steel, convex head of $\frac{1}{4}$ inch steel. Concave heads of all tanks including 525 gallon size of $\frac{1}{4}$ inch steel; larger sizes have concave head made of $\frac{1}{2}$ inch steel. They are carefully tested to 100 pounds hydrostatic pressure and are recommended for use where water working pressure does not exceed 65 pounds. Regularly made with flanged openings as shown. Can be used in a horizontal or vertical position.

Approx. Capac. Gallons	SIZES		Approx. Weight Pounds	Regular Open. Inches	Price Each
	Diam. Inches	Length Feet			
85	20	5	310	1 1/4	\$ 30.00
100	24	4	330	1 1/2	32.50
120	24	5	380	1 3/4	37.00
140	24	6	440	1 3/4	40.00
180	30	6	500	2	47.00
220	30	6	560	2	52.00
250	30	7	630	2 1/2	58.80
295	30	8	700	2 1/2	63.30
315	36	6	700	2 1/2	63.30
420	36	8	870	2 1/2	76.80
525	36	10	1030	2 1/2	87.90
430	42	6	890	2 1/2	82.80
575	42	8	1070	2 1/2	99.50
720	42	10	1250	2 1/2	112.50

Galvanized Water Heating "Peerless" Range Boilers

The heat generated in the burner strikes the water spreader or disc and passes directly into the water, causing it to circulate. The disc or spreader is used for the purpose of spreading water; it also prevents the flame from coming in contact with the bottom of the boiler, thus protecting it against the gas flame. In The Peerless we have nothing to conceal.

The cold water is carried to the bottom of the disc through the left hand pipe and comes instantly in contact with the hottest part of the boiler, just above the flame. It is quickly heated, and as it is warmed, rises through the center tube to top of boiler.

The heat, after passing around the disc, continues all the way up through the center of boiler.

Lot No.	Lgth.	Diam.	Price, each
5-E-5118	3 ft.	12 ins.	\$24.00
5-E-5124	Capacity, 18 Gallons.	4 ft. 12 ins.	25.00
5-E-5130	Capacity, 24 Gallons.	5 ft. 12 ins.	26.00
5-E-5140	Capacity, 30 Gallons.	5 ft. 14 ins.	32.00
	Capacity, 40 Gallons.		

Galvanized Range Boiler Couplings

These Couplings are made of the best grade Malleable Iron heavily galvanized. Threaded for Iron Pipe Connections.

Lot No. 5-E-2125. Per Set.....\$1.30

"Perfection" Automatic

Hot Water Storage System

The "Perfection" Hot Water Storage System is designed to supply an abundance of clean, hot water for the home, hospital or barber shop or anywhere at any time it is needed.

Always a tank full of hot water ready for instant use, made possible by the snap action type thermostat. When the temperature of the water in the tank cools down to 130 degrees, the thermostat automatically turns on the gas, which is automatically ignited by a small pilot light. When the temperature rises to 160 degrees, the thermostat shuts off the gas and it does not burn again until water is used, and the temperature of water in the tank is reduced.

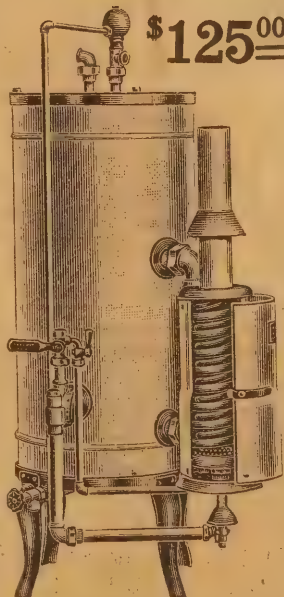
The tank is splendidly insulated, being completely covered with hair felt and enclosed in a heavy, galvanized jacket finished in grey enamel to match the heater.

The heater is designed with a heavy copper coil for big capacity and instantaneous water heating; special type burner to insure good combustion under all conditions.

"Perfection" Hot Water Storage Tanks are quickly and easily installed in new or old buildings. No new service or change of piping is necessary. First cost and operating expense decidedly low.

Capacity of tank, 24 gallons; water connections; $\frac{1}{4}$ inch; gas connection, $\frac{1}{2}$ inch; height, 51 inches. Chicago shipment, weight, 340 pounds.

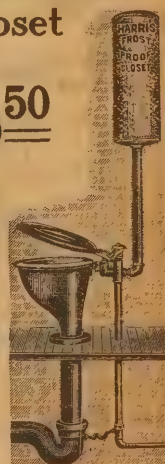
5-E-161. "Perfection" Hot Water Storage System, complete as described. Price.....\$125.00



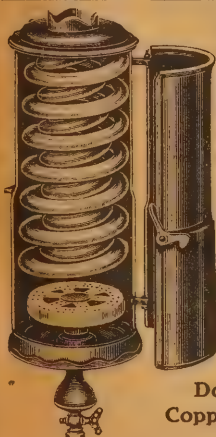
Frost-Proof Closet

\$28⁵⁰

Complete as Illustrated



5-E-1900. Valve action is free and easy, allowing full capacity of tank to flush the bowl, unobstructed by interior parts. Separate valves make it easy to adjust and safe and sure from frost and leaks. A slight pressure on the seat operates the valve and gives full pressure of water to flush the bowl clean. Always clean, sanitary and odorless. Can be put in a very small space. This outfit as illustrated complete as shown. \$28.50



Double Copper Coil

Fast heating, efficient, double copper coil water heater, designed to meet most exacting requirements.

Made with double copper coil. Cast iron jacket of neat design. Hinged door forms half of jacket. All casting fired Japanned. 3-inch flue connection. $\frac{1}{2}$ -inch gas supply, $\frac{3}{4}$ -inch water supply. Thoroughly tested.

5-E-2134. Size, 18 ins. high, 7 ins. in diameter, $\frac{3}{4}$ in. copper tubing, 18 ft. long. Weight, 23 pounds. \$8.75

5-E-2136. Size, 24 ins. high, 8 ins. in diameter, with $\frac{3}{4}$ in. tube, 25 ft. long. Weight, 48 pounds. \$10.75

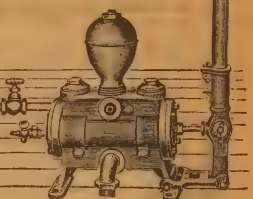
A Harris Air Pressure Water Supply Pure Fresh Water in Abundance

New Up-to-date Water- Works Outfit

\$70.00
Complete

Including Pneumatic
Tank, Double-acting
Force Pump, Water
Gauge, Pressure
Gauge, Check Valve,
Globe Valve, Elbows,
Tees, Couplings, Nipples
and Instructions for
Complete Installation

**Money Back if
Not Satisfied**



Reliable Fire Protection

A Harris Air Pressure System gives you all the conveniences of a city home and offers the most reliable fire protection. Simply connect the hose to any of the faucets placed at convenient and accessible points and you can have the fire extinguished in a few minutes. No pails of water to carry. Running water everywhere. Countless drudgery saved in bathroom, kitchen and laundry.

This simple and reliable outfit is a most efficient water works system. After reading the full instructions furnished you'll be able to set it up yourself in a few hours' time.

Outfit includes black steel double riveted air tight pneumatic tank, made of $\frac{3}{8}$ inch shell and $\frac{1}{2}$ inch head. Fully tested to 200 pounds air pressure and guaranteed for working pressure of 75 pounds.

Pump furnished with this outfit is our 4-E-2455 Double Acting Horizontal Force Pump, equipped with pneumatic attachment and used for pumping water and air at the same time, tapped for 1 $\frac{1}{4}$ -inch suction and 1-inch discharge. We also furnish water gauge glass, pressure gauge, check valve, globe valve and all other fittings, such as galvanized nipples, unions, couplings, etc., required in installation.

Tanks can be furnished to lay horizontally. Unless otherwise specified will be shipped with tappings for vertical setting.

**No Pails to
Carry**

**Reliable
Fire
Protection**

**Costs Very
Little**

**Easy to
Install**

5-E-6001. Complete Outfit. Size of tank, 24 inches by 6 feet. Capacity, 145 gallons. Working capacity, 100 gallons. Price, **\$70.00**

5-E-6002. Complete Outfit. Size of tank, 24 inches by 10 feet. Capacity of tank, 245 gallons. Working capacity, 160 gallons. Price, **\$94.00**

5-E-6005. Complete Outfit. Size of tank, 30 inches by 6 feet. Capacity of tank, 220 gallons. Working capacity, 160 gallons. Price, **\$83.00**

5-E-6007. Complete Outfit. Size of tank, 30 inches by 8 feet. Capacity of tank, 295 gallons. Working capacity, 200 gallons. Price, **\$97.00**

5-E-6009. Complete Outfit. Size of tank, 36 inches by 8 feet. Capacity of tank, 420 gallons. Working capacity, 300 gallons. Price, **\$112.00**

Vertical or Horizontal Air Pressure Tanks

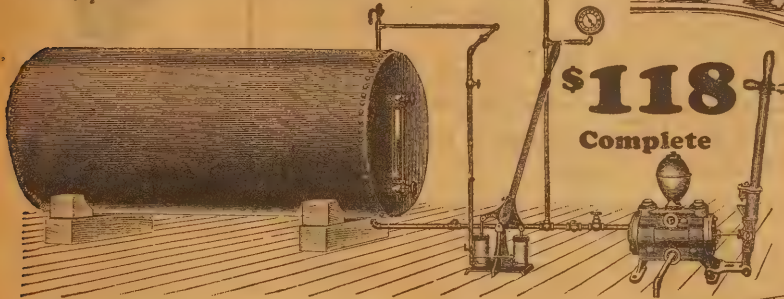
Fully tested before shipment and guaranteed perfectly air-tight, with guaranteed working pressure of 75 pounds and air pressure of 200 pounds. Prices are, F. O. B. cars, our factory near Chicago and are subject to market changes. Freight-paid or F. O. B. Chicago prices quoted on request. Prices do not include Water Gauges, etc. Manheads, \$15.00 extra. State whether you want tank tapped for vertical or horizontal position.

Order Number	Dia. In.	Leth. Ft.	Wt. Lbs.	Cap. Gals.	Thickness, In. Shell	Head	Prices Black	Galv.	Order Number	Dia. In.	Leth. Ft.	Wt. Lbs.	Cap. Gals.	Thickness, In. Shell	Head	Prices Black	Galv.
5-E-6101	24	6	370	145	3/16	1/4	\$40.00	Write for Prices	5-E-6115	36	6	760	315	3/16	5/16	\$62.00	Write for Prices
5-E-6105	24	10	525	245	3/16	1/4	61.50		5-E-6117	36	8	926	420	3/16	5/16	77.00	
5-E-6107	30	6	558	220	3/16	5/16	52.00		5-E-6119	36	10	1,090	525	3/16	5/16	89.00	
5-E-6109	30	8	677	295	3/16	5/16	64.00		5-E-6121	36	12	1,253	630	3/16	5/16	100.00	
5-E-6111	30	10	795	365	3/16	5/16	73.00										

Outfit is Easily and Quickly Installed Always Ready When and Where You Want it

Any ordinary mechanic can install one of these systems for you, or you can do the work yourself in one afternoon. Complete plans and instructions are furnished with every outfit making it impossible for you to go wrong. There is no possible chance for these outfits to get out of order. They are very simple, containing the fewest working parts of any outfit on the market. Every outfit is guaranteed to be absolutely satisfactory in every way or your money will be refunded. If you are in doubt as to which size outfit will be needed to fulfill your requirements, we will be glad to give you any information that might help you out.

Modern Air Pressure Outfit



One of the special features of this outfit is the absolutely positive air supply arrangement. You'll find this feature to be a decided advantage in that it will give you a plentiful supply of air at all times, with only a few strokes of the pump.

A two-cylinder air pump is furnished with this outfit. A very important feature is the large 3-inch Cylinder Water Pump furnished, supplying a large volume of water and filling the tank in a very short time. This reduces the amount of pumping required.

We furnish these outfits, exactly as shown, complete, with large 3-inch Cylinder, Double Acting, Water Force Pump, Two-Cylinder, High Pressure Air Pump, with long, detachable lever, as illustrated, all necessary valves, check valves, fittings, pressure gauge, water gauge, complete with gauge cocks, guard rods, etc., the necessary piping to connect the pump with the outfit as shown; also the necessary pipe between the water pump and the tank. We do not furnish the suction pipe leading from the pump to the well, as this varies in every case. This will come extra, according to our net catalogue price on 1 1/4-inch Galvanized Iron Pipe. We, however, furnish the piping between the pump and tank, as shown in this illustration, and necessary fittings, which makes the outfit complete, as illustrated.

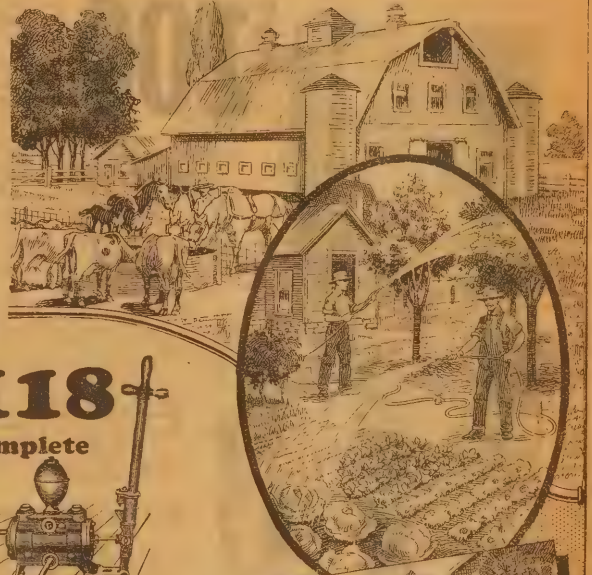
Below you will find three complete outfits. If in doubt, write us for complete estimate. Tell us the size outfit and send sketch of quantity of pipe and fittings needed from well to pump and from pump to supply in your home. We will make a delivered price on all your needs.

- 5-E-6203.** Complete Outfit. Size of tank, 24 inches by 10 feet. Capacity of tank, 245 gallons. Working capacity, 160 gallons. Price, **\$118.00**
- 5-E-6207.** Complete Outfit. Size of tank, 36 inches by 8 feet. Capacity of tank, 420 gallons. Working capacity, 360 gallons. Price, **\$130.00**
- 5-E-6209.** Complete Outfit. Size of tank, 36 inches by 10 feet. Capacity of tank, 525 gallons. Working capacity, 360 gallons. Price, **\$145.00**

Large Air Pressure Tanks

Fully tested before shipment and guaranteed perfectly air-tight, with guaranteed working pressure of 75 pounds and air pressure of 200 pounds. Prices are F. O. B. cars our factory near Chicago and are subject to market changes. Freight-paid or F. O. B. Chicago prices quoted on request. Prices do not include Water Gauges, etc. Manheads, \$15.00 extra. State whether you want tank tapped for vertical or horizontal position.

Order Number	Dia. In.	Lgth. Ft.	Wt. Lbs.	Cap. Gals.	Thickness, In.	Shell Head	Price		Order Number	Dia. In.	Lgth. Ft.	Wt. Lbs.	Cap. Gals.	Thickness, In.	Shell Head	Price	
							Black	Galv.								Black	Galv.
5-E-6123	42	8	1,422	575	3/4	3/8	\$110.00	Write for Prices	5-E-6135	48	14	2,665	1,300	3/4	3/8	\$187.50	Write for Prices
5-E-6125	42	10	1,685	720	3/4	3/8	128.00		5-E-6137	48	16	2,963	1,500	3/4	3/8	208.50	
5-E-6127	42	12	1,953	865	3/4	3/8	145.00		5-E-6141	48	20	3,565	1,880	5/16	3/8	252.50	
5-E-6129	42	14	2,215	1,000	3/4	3/8	164.00		5-E-6143	48	24	4,167	2,260	5/16	3/8	292.00	



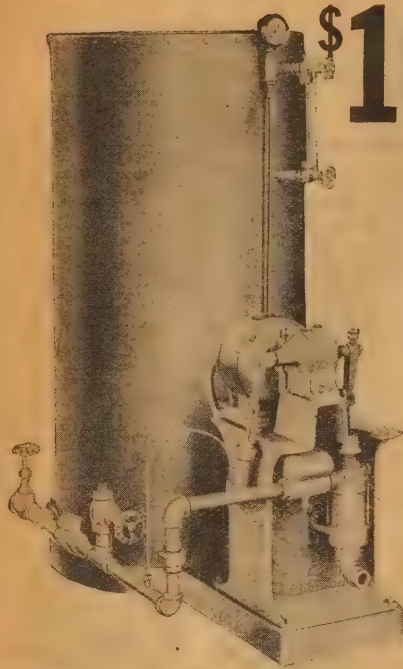
Takes Drudgery Out of Watering Farm Stock

Keeps Garden and Lawn Fresh and Green



Harris Electric Water Supply System

*A Pressure Water Supply System—Automatic and Pneumatic—
The Most Practical and Satisfactory—Guaranteed for 5 Years.*



\$100

Here is a splendid, practical, guaranteed electric water supply system that will give you all the water you want all the year round without the least bit of attention. Starts and stops automatically, with positive safety. Simple—durable—noiseless. Operates at exceptionally low cost.

These ideal electric systems are compact and complete. Require but little floor space and can be quickly and easily set up. No assembling necessary—systems are shipped completely set up as illustrated.

Built solid and compact with the world-wide used "Kant-Leck" galvanized rust-proof tanks, sizes 22x36 inches, capacity 60 gallons. The single brass cylinder, self-priming pumps have direct motor-gear drive—a feature that insures perfect, smooth, silent operation—lasting and non-depreciating. Capacity, 100 gallons per hour. Has 1 inch pump stroke and constant water pressure of 18 to 30 pounds.

Furnished complete with high grade motor, geared direct to the pump. No troublesome belts—no complications—no frequent repairs. Operate from any electric circuit. Just give phase, voltage and current you require, and we will send the right motor.

Each Harris Electric System is guaranteed for 5 years. Should any parts prove defective within that time, they will be replaced free of charge.

For Shallow Wells, Cisterns, Lake or River

5-E-2500. Complete Harris Electric Water Supply System for shallow wells, cisterns, lake or river. Furnished with 1/4 H. P. electric motor, 1700 R. P. M. To be installed not higher than 20 feet above water level. Has two 3/4 inch pipe connections. Price, complete as illustrated,..... **\$100.00**

If motor for 25 cycle circuit is required, add \$5.00 to the price. Be sure to give phase, voltage and current.



Small illustration above shows outfit for deep wells, including Plunger Rod, Well Cylinder and Suction Pipe.

For Deep Wells

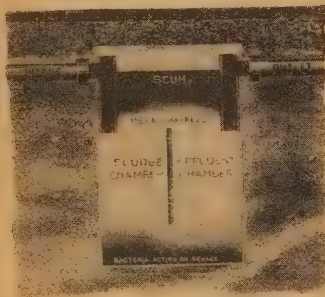
5-E-2600. Complete Harris Electric Water Supply System for deep wells up to 50 feet, including plunger rod, well cylinder 4 1/2 inches wide and suction pipe. Furnished with 1/2 H. P. electric motor, 1700 R. P. M.

Price, complete as shown in small illustration (frame box not included)..... **\$150.00**

With Motors for 25 Cycle Circuit, \$7.50 extra. Over 50 feet depth of well, add 50c per foot extra. No depth greater than 150 feet. Be sure to give phase, voltage and current.

Harris Septic Sewage Disposal Tanks

*Safe—Effectual—Inexpensive. Sanitary—Odorless—Protects Your Water Supply.
Used Wherever Running Water is Available. Anybody Can Install It.*



Sectional view showing simplicity and effectiveness of Harris Septic Tanks

The HARRIS SEPTIC

TANK is adapted to all uses, city or rural, where running water is available. Ideal for homes, hotels, summer resorts, etc. By the natural process of bacterial action it provides a safe, yet effectual and inexpensive method of sewage disposal, as well as a positive protection of your water supply. HARRIS SEPTIC TANKS are easy to install, no skilled labor being required. Full instructions for installation furnished with each tank. After installation they require no further attention whatever.

HARRIS SEPTIC TANKS are made from the purest Copper-bearing iron obtainable. Ten to fourteen gauge metal is used, the gauge of the metal being increased as the capacity of the tank increases. All seams are carefully welded by experts, and every tank is given a thorough inspection before leaving the factory.

All surfaces are covered with several coats of tested Mineral Oil Preservative, applied under intense heat, protecting the tanks indefinitely against any corrosive action.

\$30
and up



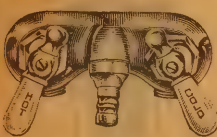
The No. 301 HARRIS SEPTIC TANK is the best family size tank.

Order No.	Size of Tank	Gauge	Total Capacity Gals.	Size Tile Connection	Weight	Capacity—Home Use—No. of Persons	Prices F.O.B. Warehouse in New York
5-E-300...	30 1/2" x 48"	14	153	4"	165 lbs.	4-7	\$ 30.00
5-E-301...	36" x 48"	14	212	4"	205 lbs.	6-9	34.00
5-E-302...	45" x 48"	14	331	4"	300 lbs.	8-12	45.00
5-E-303...	48" x 60"	12	432	6"	382 lbs.	12-18	65.00
5-E-304...	60" x 60"	12	735	6"	510 lbs.	20-30	130.00
5-E-305...	72" x 60"	10	1058	6"	715 lbs.	30-42	160.00

Any of the above sizes may be used in series to increase the capacity.

Faucets-Cocks & Plumbing Accessories

Indexed Compression Double Bath Cock

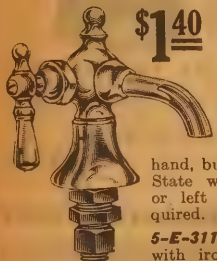


\$2.75

Made of brass, nickel plated; china index lever handles. The large chamber at back thoroughly mixes water.

- 5-E-3104.** Price with lead pipe, tall pieces..... **\$2.75**
5-E-3106. Price with iron pipe, tall pieces..... **\$3.25**

Fuller Basin Cock



\$1.40

Cast brass, heavy design, finely nickel plated. Generally sold in pairs, one right and one left hand, but will single. State whether right or left hand is required.

- 5-E-3110.** Price with iron pipe, tall piece. Each..... **\$1.40**

Indexed Fuller Double Bath Cock



\$2.75

Made of heavy cast brass, handsomely nickel plated. Guaranteed to be the best cock on the market.

- 5-E-3101.** Price with lead pipe, tall piece..... **\$2.75**
5-E-3103. Price with iron pipe, tall piece..... **\$3.25**

Self Closing Faucet

Compression Nickel-Plated Self-Closing Faucet with china top marked "Hot" or "Cold." Low pattern. Mention index wanted.



\$3.00

- 5-E-3122.** Price with lead pipe, tall pieces..... **\$3.00**
5-E-3124. Price with iron pipe, tall pieces..... **\$3.25**

Supply and Flush Pipes for High Closet Tanks

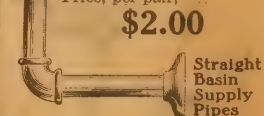


Offset Supply Pipe

- 5-E-3194.** Nickel Plated; made of 3/8-in. heavy brass tubing; use with high tank closet outfits, each, **\$1.75**
5-E-3193. Nickel Plated; use with high tank closet outfits. Heavy brass tubing, 1 1/4 in. x 5 1/2 ft. long, 3 in. offset, 1 1/2 in. collar, **\$1.85**

Basin Supply Pipes

5-E-3171. Nickel plated Basin Supply Pipes to wall, plain, made of heavy 3/8 in. brass tubing fitted with coupling to fit basin cock, nickel plated flanges. Price, per pair,

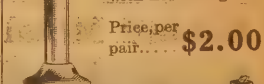


\$2.00

5-E-3173. Straight basin supplies made of heavy tubing. Size 3/8 inch, fitted with nickel plated coupling threaded to fit basin cocks, furnished with nickel plated floor flanges. Price, per pair..... **\$2.00**

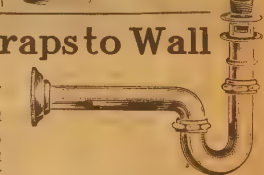
Bath Tub Supply Pipes

5-E-3167. Nickel plated straight bath supply pipes, made of heavy 1/2 inch tubing fitted with coupling, threaded to connect with tall pieces on bath cock, complete with floor flanges. Price, per pair..... **\$2.00**



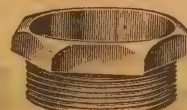
Lavatory "P" Traps to Wall

LAVATORY TRAPS
 Made of brass tubing. Is heavily nickel plated.
5-E-3145. 1 1/4-inch nickel plated plain "P" trap. For lead **\$2.25** pipe connections. Price, ea.
5-E-3146. 1 1/4-inch nickel plated plain "P" trap. For iron pipe connection. Price, each..... **\$2.75**



Connected Bath Waste and Overflow

5-E-3131. Heavy nickel plated brass tubing with nuts, ell and shoe of cast brass. Furnished with adjustable tee and nickel plated floor flange. nickel plated chain and rubber stopper. Price, each, **\$2.40**



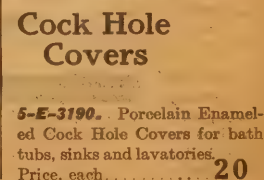
Lavatory "S" Traps To Floor

5-E-3157. 1 1/4-inch nickel plated "S" trap. For lead pipe connection. Price, each, **\$2.50**
5-E-3158. 1 1/4-inch nickel plated "S" trap. For iron pipe connection. Price, each..... **\$3.00**



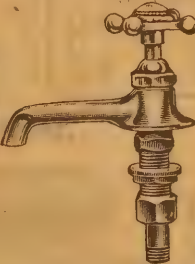
Cock Hole Covers

5-E-3190. Porcelain Enamelled Cock Hole Covers for bath tubs, sinks and lavatories. Price, each..... **20**



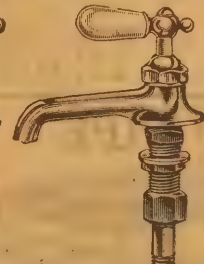
Made of cast brass, heavy design, nickel plated; white china handles indexed "hot" or "cold." Generally sold in pairs, but if ordered single, state whether right or left and hot or cold faucet is wanted.

- 5-E-3110 1/2.** Price with iron pipe, tall piece, each..... **\$1.65**



Handsome, serviceable, heavy nickel plated Basin Cock. The body and spout are cast solid in one piece. White porcelain plate marked "Hot" or "Cold." If not ordered in pairs, be sure and state index desired.

- 5-E-3125.** Price with iron pipe, tall piece, each..... **\$1.00**



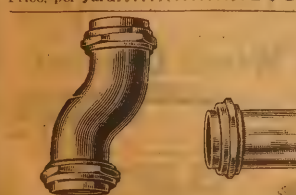
Heavy nickel plated basin cock, serviceable and attractive. Body and spout in one piece. Fitted with white porcelain lever handle. When ordering, state whether right or left cock is wanted.

- 5-E-3126.** Price with iron pipe, tall piece, each..... **\$1.10**



Nickel Safety Chain

5-E-5900. Nickel plated safety chain used on plugs, stoppers, closet puller, etc. Price, per yard..... **10c**



Closet Screws and Washers

5-E-3191. Nickel Plated Heavy Pattern Head Closet Screws and Washers, 2 1/4 inches under the head. Price, per set of 12 pieces..... **15c**

SLIP JOINT CONNECTION

5-E-3185. These elbows are made of brass and are heavily nickel plated. Sizes 2x4x3 in., to be used with low-down closet tanks and wash-down bowls. Price, each..... **90c**

ONE-QUARTER BEND SLIP JOINT CONNECTION

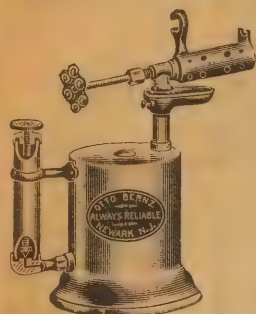
5-E-3196. Heavily Nickel Plated Brass Slip Joint Connections, size 1 1/4 inch by 1 1/4 inch, for use with high closet tanks and wash down bowls. Price, each..... **70c**

5-E-3197. Made of brass, nickel plated. Size, 2x2x6 inches. For use with low-down closet tanks and syphon jet bowls. Price, each..... **95c**



Stop Cocks & Plumbing Accessories

Gasoline Blow Torch



5-E-2911. Equipped with soldering iron attachment. Made of heavy brass and has non-leakable valves. The safest and best torch on the market. Fully guaranteed.

Capacity, 1 qt. Price... **\$5.95**

Pig Lead for Calking



5-E-159. Pig lead for calking and all plumbing work.

Per pound... **18c**

Babbitt Metal



Intended to be used in bearings of various kinds. The different grades of babbitt that we offer we guarantee to be of the very best composition.

PREMIER BABBITT

5-E-6503. A special mixture embodying anti-friction ingredients, used on high speed engines. Price, per pound... **35c**

No. 3 BABBITT METAL

5-E-6507. Used for bearings of low speed machinery. Price, per pound... **13c**

Spun Oakum

Used for calking soil pipe and fittings. Comes in 50 lb. bales.

5-E-2907. Price, per full bale... **\$5.50**

5-E-2908. In less than full bales, per lb... **12c**



Calking Chisel



5-E-2923. Plumbers' calking chisel, made of special tool steel. Price, each... **25c**

Yarning Irons

5-E-2925. Plumbers' yarning iron, made of special tool steel. Price, each... **25c**

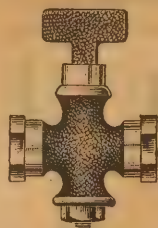
Bending Springs



5-E-2927. Used for bending lead pipe. Made of the best quality of spring steel.

Size, inches... **1 1/4 1 1/2**
Price, each... **50c 58c**

Compression Stop Cock



"T" Handle Brass Stop for Iron Pipe.

5-E-3011. Each

Size, 1/2 inch... **\$0.53**

Size, 3/4 inch... **1.75**

Size, 1 inch... **1.32**

Size, 1 1/4 inch... **2.25**

Size, 1 1/2 inch... **3.75**

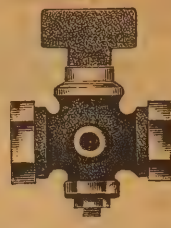


5-E-3012. Improved automatic compression waste valve. First or last half turn of handle closes or opens flow. Cannot waste under full compression. Threaded for iron pipe.

Size, 1/2 inch... **\$0.65**

Size, 3/4 inch... **.78**

Size, 1 inch... **2.00**



"T" Handle Brass Stop and Waste for Iron Pipe.

5-E-3013. Each

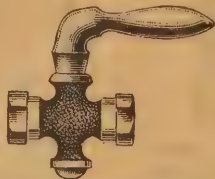
Size, 1/2 inch... **\$0.55**

Size, 3/4 inch... **.77**

Size, 1 inch... **1.35**

Size, 1 1/4 inch... **2.30**

Size, 1 1/2 inch... **3.80**



Lever Handle Brass Stop for Iron Pipe.

5-E-3019. Each

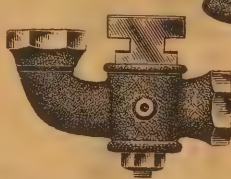
Size, 1/2 inch... **\$0.53**

Size, 3/4 inch... **1.25**

Size, 1 inch... **1.32**

Size, 1 1/4 inch... **2.25**

Size, 1 1/2 inch... **3.75**



Brass Hydrant Cock with Waste for Iron Pipe.

5-E-3027. Each

Size, 3/4 inch... **\$1.40**

Size, 1 inch... **2.05**

Size, 1 1/4 inch... **3.25**



Lever Handle Brass Stop and Waste for Iron Pipe.

5-E-3021. Each

Size, 1/2 inch... **\$0.55**

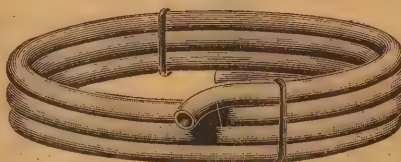
Size, 3/4 inch... **.77**

Size, 1 inch... **1.35**

Size, 1 1/4 inch... **2.30**

Size, 1 1/2 inch... **3.80**

LEAD PIPE

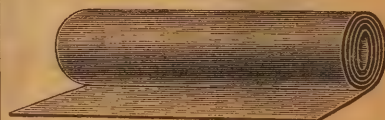


We will furnish this pipe cut in lengths you may require. Prices are based on present market conditions. We will offer Lead Pipe subject to market changes.

5-E-2807. For waste pipe:
Diameter, inch... **1 1/2 2 2 1/2 3 4**
Weight, per foot... **2 lb. 3 lb. 4 lb. 5 lb.**
Price, per foot... **36c 54c**

5-E-2803. Strong Lead Pipe:
Diameter, inches... **2 1/2 3 4**
Weight, per foot... **46c 55c**
Price, per foot... **46c 55c**

Sheet Lead



5-E-2805. Sheets are 24 inches wide.
Thickness, inches... **1/2 1 1 1/2**
Weight, per square foot... **2 lbs. 4 lbs.**
Price, per square foot... **40c 80c**

Melting Pots



5-E-2915. To be used in connection with our Gasoline Bulb Blast Furnace. Price... **50c**

Melting Ladles



5-E-2917.
Size, across bowl, inches... **3 5**
Price... **45c 68c**

Soldering Outfit



REFINED METAL SOLDER

A handy outfit for the man who wants to do repair work around the house. For outside work, we suggest that you include one of our blow torches described on this page. Five pieces complete: 1-lb. Soldering Copper, with handle; 1 Plumber's Scraper; 1 Bar of Solder, about 1 1/4 lbs.; 1 Coll of Wire Solder, 1/4 lb.; 1 Piece of Rosin.

5-E-4900... **\$1.25**

Soldering



Coppers

5-E-2937. Weight, 1 lb. each. Furnished without handles. Price, each... **50c**

5-E-2939. 2-lb. Soldering Copper. Each... **\$1.00**

Box Wood Dresser

5-E-2935. Plumbers' Box Wood Dresser. Price, each... **\$1.00**

Oval Shave Hook

5-E-2929. Plumbers' oval shave hook, crucible steel blade. Price, each... **25c**

Bending Pins

5-E-2927. Plumbers' bending pins. Price, each... **20c**

Best Faucets, Bibbs and Cocks

Compression Plain Bibbs



90c

With Flange
Threaded for
Iron Pipe
Nickel Plated

5-E-2959.
Size, 1/2 inch..... **90c**
5-E-2961.
Size, 3/4 inch..... **\$1.20**
Brass finished 20c less

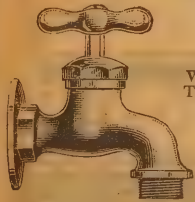


80c

Threaded for
Iron Pipe
Nickel Plated

5-E-2951.
Size, 1/2 inch..... **80c**
5-E-2953.
Size, 3/4 inch..... **97c**
Brass finished 20c less

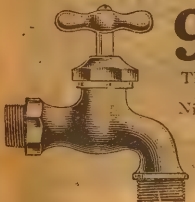
Compression Hose Bibbs



\$1.05

With Flange
Threaded for
Iron Pipe
Nickel Plated

5-E-2963.
Size, 1/2 inch..... **\$1.05**
5-E-2965.
Size, 3/4 inch..... **\$1.30**
Brass finished 20c less



90c

Threaded for
Iron Pipe
Nickel Plated

5-E-2955.
Size, 1/2 inch..... **90c**
5-E-2957.
Size, 3/4 inch..... **\$1.10**
Brass finished 20c less

Plain Compression Laundry Bibb

5-E-3501. Polished brass. For 1/2 inch iron pipe. Shipping weight, about 8 oz. Price..... **45c**



Compression Hose Laundry Bibb

5-E-3502. Same as No. 5-E-3501, but for 3/4 inch hose connection. Price..... **50c**



Swinging Mixing Faucets

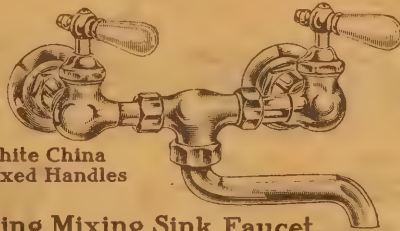


Complete With
Soap Dish

\$7.00

Swinging Mixing Sink Faucet

5-E-1603. Latest improved swinging mixing faucet for kitchen sinks. Made of heavy brass, highly nickel plated. Fitted with white China handles indexed for hot and cold water. The long spout mixes hot and cold water to just the right temperature and distributes the flow to all parts of the sink. White porcelain China soap dish supported by neat nickel plated bracket attached to top of faucet. Designed to fit standard openings in kitchen sinks. Made with flange and threaded for 1/2 inch pipe connections. Price, each..... **\$7.00**

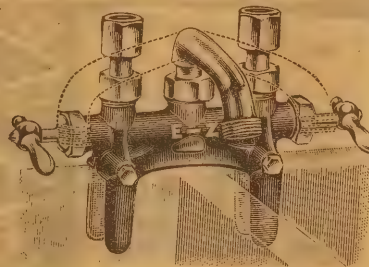


White China
Indexed Handles

\$6.00

Swinging Mixing Sink Faucet

5-E-1604. Mixing faucet with swinging spout for kitchen sinks. Designed to fit standard openings of all sinks. White China handles indexed for hot and cold water. Long spout mixes hot and cold water to the right temperature and enables you to distribute the flow practically to any part of the sink. Made with flange and threaded for 1/2 inch iron pipe connections. Made of brass highly nickel plated. Price, each..... **\$6.00**



\$3.50

Saves
Time
and
Fittings

Swinging Mixing Laundry Tub Faucet

5-E-1605. Improved laundry tub faucet. Quickly and easily connected to any laundry tub; saves more than half of the time required for installation and more than its cost in fittings alone. The long spout mixes water to the right temperature and enables you to distribute the flow to both compartments of your laundry tub. Made of brass highly nickel plated. Fitted with adjustable lock nuts threaded for iron pipe connections. Price, each..... **\$3.50**



Boiler Cock

5-E-2129. Boiler drain cock. Made of solid brass in rough finish. Threaded for standard hose couplings, 1/2 inch connection to range or heating boiler. Price, each..... **40c**



Sill Cock

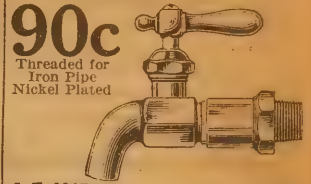
5-E-3035. Compression sill cock with 3/4 inch threaded for standard hose coupling and threaded for connection to 3/4 inch iron pipe. Made of brass in rough finish with iron wheel. Price, each..... **75c**



Sill Cock

5-E-3500. Compression sill cock with loose key. Made of polished brass. Cast key. Size, 1/2 inch. Protects your water supply and prevents leakage. Price, each..... **85c**

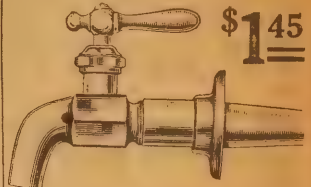
Fuller Pattern Plain Bibbs



90c

Threaded for
Iron Pipe
Nickel Plated

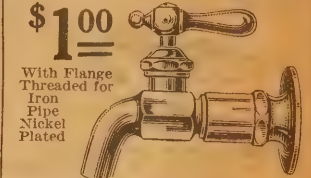
5-E-2967.
Size, 1/2 inch..... **90c**
5-E-2969.
Size, 3/4 inch..... **\$1.00**
Brass finished 15c less



\$1.45

With Flange for Lead Pipe Connection, Nickel Plated.

5-E-2991.
Size, 1/2 inch..... **\$1.45**
5-E-2993.
Size, 3/4 inch..... **\$1.55**

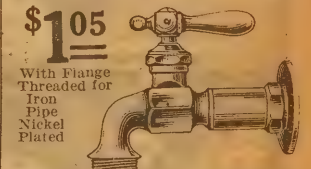


\$1.00

With Flange
Threaded for
Iron Pipe
Nickel Plated

5-E-2975.
Size, 1/2 inch..... **\$1.00**
5-E-2977.
Size, 3/4 inch..... **\$1.25**

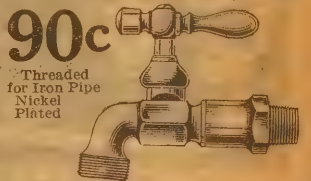
Fuller Pattern Hose Bibbs



\$1.05

With Flange
Threaded for
Iron Pipe
Nickel Plated

5-E-2979.
Size, 1/2 inch..... **\$1.05**
5-E-2981.
Size, 3/4 inch..... **\$1.20**

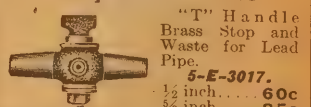


90c

Threaded for
Iron Pipe
Nickel Plated

5-E-2971.
Size, 1/2 inch..... **90c**
5-E-2973.
Size, 3/4 inch..... **\$1.00**

Stop and Waste



"T" Handle
Brass Stop and
Waste for Lead
Pipe.

5-E-3017.
1/2 inch..... **60c**
3/4 inch..... **85c**

Hydrant Clamps

21-E-3029. Each
Size, 1/2 inch..... **8c**
Size, 3/4 inch..... **9c**
Size, 1 inch..... **10c**
Size, 1 1/4 inch..... **11c**



Latest Bathroom Fixtures

Plate Glass Shelves



Brackets are adjustable solid brass, nickel-plated and highly polished. Plate glass shelf is polished and has rounded edges.

5-E-3027. Size of shelf, 18x5 inches.

Price, \$1.50

5-E-3028. Size of shelf, 24x5 inches.

Price, \$1.80



Brackets are made of solid cast brass, heavily nickel-plated and polished. The shelf is made of plate glass, polished, with rounded edges. The bar is of solid round glass, 1 inch diameter, and can be readily removed.

5-E-3031. Size of shelf, 18x5 inches.

Price, \$3.70

5-E-3032. Size of shelf, 24x5 inches.

Price, \$4.00

5-E-3033. Size of shelf, 30x5 inches.

Price, 4.25



5-E-532. Made with two 1/4 inch rods 10 inches long.

Price, each, 95c

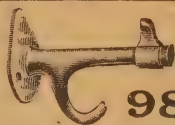
5-E-533. Made with three 1/4 inch rods 10 inches long.

Price, each, \$1.15



5-E-3041. Soap Dish. Made to fasten to wall. Solid brass, heavily nickel plated and highly polished. Complete with screws.

Price, each, 55c



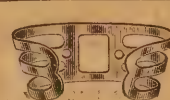
5-E-294. Door bumper and coat hook made of cast brass; nickel plated. 4 in. long.

Price, each, 98c



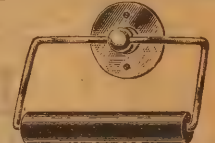
5-E-291. Water bag hook made of cast brass. Nickel plated. 5 inches long.

Price, each, 70c



5-E-3035. Whisk broom holder. Made of brass, heavily nickel plated, highly polished, and complete with screws.

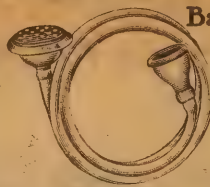
Price, each, 30c



5-E-3003. Toilet Paper Holder. Made of brass, heavily nickel-plated and highly polished, with ebony roller.

Price, each, 22c

Bath Spray



Rubber bound, brass, nickel plated spray, 3 inches diameter, with 5 feet pure white rubber tubing, with holdfast rubber bulb.

5-E-3019. Price, each, 90c

Towel Bars



Made of 1/2-inch brass tubing, heavily nickel-plated with cast posts, complete with screws. Each

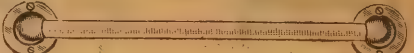
5-E-3085. 15 inches long, 75c

5-E-3087. 18 inches long, 80c

5-E-3089. 21 inches long, 83c

5-E-3091. 24 inches long, 86c

Glass Bar

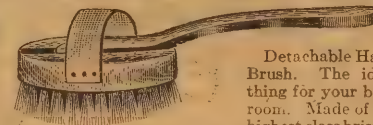


Bar is made of clear 5/8 inch diameter. Posts are cast brass, heavily nickel plated and complete with screws. Each

5-E-3061. 15 inches long, 90c

5-E-3062. 18 inches long, \$1.00

5-E-3063. 24 inches long, 1.15



Detachable Hand Brush. The ideal thing for your bath room. Made of the highest class bristles

and warranted to wear. Its construction is such that it will last a good many years.

5-E-3201. Each, 40c



5-E-3065. Tumbler Holders. Solid brass, heavily nickel-plated and highly polished. Complete, with screws.

Price, each, 60c



5-E-3066. Tumbler and tooth brush holder combined. Solid brass, heavily nickel-plated and highly polished. Complete with screws.

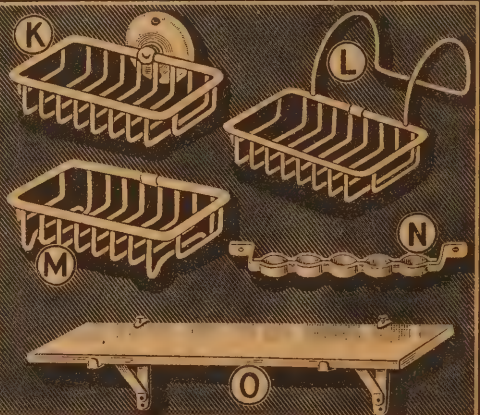
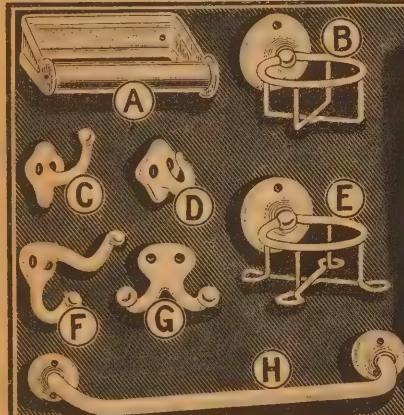
Price, each, 69c



5-E-3075. The rods are heavily nickel-plated, ends are rubber covered to protect bath tub. The seat is of finished oak. Will fit any bath tub. Size, 18x8 in. Price, each, 90c

5-E-3025. Same as above 5-coat white enamel finish. The handsomest Bath Seat made.

Price, each, \$1.00



"Maid-EN-White" and Nickel-Plated Bathroom Fixtures

Made of heavy weight material, beautifully designed and smoothly finished. Nickel-plated fittings are guaranteed not to peel or tarnish. The white enameled fittings are guaranteed not to crack, peel or discolor. By a special process, the parts used in the construction of these fittings are joined together by expanding

the metal so that the entire piece is practically one. No solder is used on these fixtures. All "Maid-EN-White" fixtures requiring screws are furnished with white enameled screws; nickel-plated fixtures with nickel-plated screws.

Item	White Enameled	Nickel Plated
"A" Toilet Paper Holder.....	\$0.55	\$0.30
"B" Tumbler Holder.....	.57	.30
"C" Single Robe Hook.....	.25	.10
"D" Razor Strap Hook.....	.25	.10
"E" Tooth Brush and Tumbler Holder.....	.70	.40
"F" Double Robe Hook.....	.25	.15
"G" Twin Robe Hook.....	.25	.15
"H" One-Piece Towel Bars, 18 inches long.....	.95	.65
"H" One-Piece Towel Bars, 24 inches long.....	1.15	.80
"H" One-Piece Towel Bars, 30 inches long.....	1.50	1.00
"K" Wall Soap Dish, 4 1/4 x 3 1/4 x 1 1/4, Medium Size.....	.85	.50
"K" Wall Soap Dish, 5 1/4 x 4 1/4 x 1 1/4, Large Size.....	.90	.60

Item	White Enameled	Nickel Plated
"J" Wood Medicine Cabinet, 15 1/2 inches high, 11 1/2 inches wide, White enameled French plate mirror.....	\$4.00	
"L" Bathtub Soap Dish, 4 1/4 x 3 1/4 x 1 1/4, Medium Size.....	.65	\$0.55
"L" Bathtub Soap Dish, 5 1/4 x 4 1/4 x 1 1/4, Large Size.....	.85	.65
"M" Stand Soap Dish, 4 1/4 x 3 1/4 x 1 1/4, Medium Size.....	.45	.25
"M" Stand Soap Dish, 5 1/4 x 4 1/4 x 1 1/4, Large Size.....	.63	.40
"N" Tooth Brush Holder.....	.32	.15
"O" Milk White Glass Shelf, 5 inches wide, 1/2 inch thick, edges rounded and polished, enameled brackets, 18 ins. long.....	\$2.30	

Item	White Enameled	Nickel Plated
"O" Milk White Glass Shelf, 5 inches wide, 1/2 inch thick, edges rounded and polished, enameled brackets, 24 inches long.....	\$2.50	
"O" Milk White Glass Shelf, 5 inches wide, 1/2 inch thick, edges rounded and polished, enameled brackets, 30 inches long.....	\$2.85	
"O" Crystal Glass Shelf, 5 inches wide, 1/2 inch thick, edges rounded and polished, nickel-plated brackets, 18 inches long.....	\$1.10	
"O" Crystal Glass Shelf, 5 inches wide, 1/2 inch thick, edges rounded and polished, nickel-plated brackets, 24 inches long.....	\$1.25	
"O" Crystal Glass Shelf, 5 inches wide, 1/2 inch thick, edges rounded and polished, nickel-plated brackets, 30 inches long.....	\$1.50	

General Plumbing Accessories

Sink Plugs

5-E-1729.

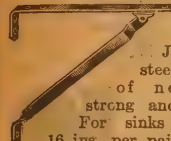
Furnished complete as illustrated, nickel-plated. Each... 25c



Sink Brackets

5-E-1723.

Black Japanned steel sink bracket of neat design, strong and substantial. For sinks 18 ins. and 16 ins., per pair, 60c For sinks 20 ins. and larger, per pair, 75c



Force Cups

5-E-3033.

Used to force obstruction from closets, lavatories and sinks. Place the rubber cup over the opening and press down; this will form a suction and remove almost any obstruction, saving a plumber's bill which will easily pay for the force cup many times over. Without handle.

35c



Low Tank Closet Valves

5-E-1300.

High grade pure rubber low tank closet valves. Choice of three sizes. Replace your leaky valve and water you are now wasting. They are quickly and easily replaced. Shipping weight about 6 ounces.

2 inch. Price, 20c
2 1/2 inch. Price, 24c
3 inch. Price, 30c



Rubber Fuller Balls

5-E-1302. Rubber Balls for Fuller bibbs. Sizes for bibbs, 1/2, 3/4. State size wanted and whether for hot or cold water. Shipping weight, 2 balls, about 2 ounces. Price for 2 balls, 5c

Combination Ferrules

Lead and Iron.

5-E-2817.

Length, inches.

1 1/2 x 2 ins. Price, ea., \$0.63 \$0.95
1 1/2 x 2 ins. Price, ea., .65 1.00
2 ins. Price, ea., .70 1.15
4 ins. Price, ea., 1.25 2.10



Brass Ferrules

Used in connecting lead waste pipe to soil pipe.



5-E-2843. 4x4 ins. Each 50c

Lead Bends

Standard Grades



Short Bends.

5-E-2831. 4x12. Each, \$2.50

Long Bends

5-E-2837. 4x18. Each, \$3.35

Lead and Brass Traps



Lead "S" Trap

Short Lead "S" Traps with iron pipe connections on outlet end.

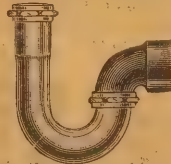
5-E-2857. 1 1/4 ins.

Price, each, \$1.35

5-E-2859. 1 1/2 ins.

Price, each, \$1.75

1/2 "P" Trap



5-E-2704. Nickel Plated Brass "P" Trap, fitted with 1 1/2 inch adjustable lock nut and 1 1/2 inch cast brass elbow threaded for iron pipe connection. Shipping weight about 12 ounces. Price, each, \$1.35

Lead "S" Trap



Short Lead "S" Traps, plain ends in two standard sizes.

5-E-2851. 1 1/4 ins.

Each, 85c

5-E-2853. 1 1/2 ins.

Each, \$1.25



Long Lead "S" Traps, with iron pipe connection on outlet end.

5-E-2871. 1 1/4 ins.

Price, each, \$2.00

5-E-2873. 1 1/2 ins.

Price, each, \$2.40

Long Lead "S" Traps, with plain ends. Two standard sizes.

5-E-2863. 1 1/4 ins.

Price, each, \$1.45

5-E-2865. 1 1/2 ins.

Price, each, \$1.95



Half "S" or "P" Traps, with iron pipe connection on outlet end.

5-E-2887. 1 1/4 ins.

Price, each, \$1.25

5-E-2889. 1 1/2 ins.

Price, each, \$1.60



Half "S" or "P" Lead Traps, in two standard sizes.

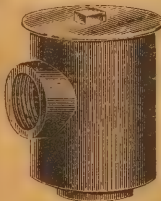
5-E-2879. 1 1/4 ins.

Price, each, 75c

5-E-2881. 1 1/2 ins.

Price, each, \$1.10

Iron and Lead Traps

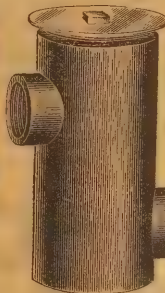


Cast Iron Bath Traps

5-E-2811.

Complete with nickel plated covers for sinks, laundry tubs, bath tubs, etc. Tapped side and bottom for 1 1/2 in. iron pipe.

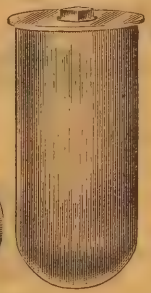
4x5x1 1/2 ins. 95c



5-E-1532.

Size, 4x8 inches. Tapped both sides for 1 1/2 in. pipe. Ship. wt. about 15 1/2 lbs.

Price, \$1.15



Cast Iron Sink Traps

5-E-1537.

Lead Drum Traps

5-E-2815.

With nickel plated brass trap screw, size 4x9 inches.

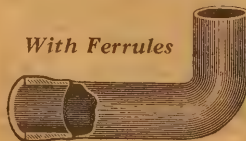
Each, \$3.25

Cast iron with brass cleanout plug connected direct to sink with bolts. Tapped for 1 1/2 in. pipe connection. Ship. wt. about 4 1/2 lbs.

Price, 85c

Lead Bends

With Ferrules



Width, 5 1/2 inches, Inlet.

5-E-2819. 4x12. Each, \$3.20

5-E-2821. 4x14. Each, 3.35

5-E-2825. 4x18. Each, 3.95

Closet Bends Cast Iron



5-E-2839. Adjustable Flange Closet Bend. Size, 4x15 inches. Tapped both sides for 1 1/2 inch iron pipe. Shipping weight about 18 lbs.

Price, \$1.30

5-E-2839. Plain Bend, 4x15 inches, not tapped. Price, \$1.05

Sink Strainers

5-E-1727.

Nickel-plated sink strainers. Each, 15c



Sink Couplings



Illustration at left shows sink couplings for lead pipe connections.

Illustration at right shows sink couplings for iron pipe connections.

5-E-1737. Cast iron couplings for lead pipe connections, 6c

5-E-2739. Cast iron couplings for 1 1/2 inch and 1 1/2 inch iron pipe connections, Each, 20c

Bath Tub Plugs

5-E-3143. Heavily nickel plated for lead pipe. Price, \$1.25

5-E-3144. Heavily nickel plated for iron pipe. Price, \$1.50



Sink Bolts

5-E-1733.

Screw head

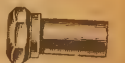
bolts for cast-iron sinks.

Each, 2c



Brass Soldering Union

5-E-2905. Used to connect lead with iron.



Size, inches... 3/8 1/2 3/4 1
Price, each... 15c 20c 25c 33c
Size, inches... 1 1/4 1 1/2 2
Price, each... 43c 49c 60c

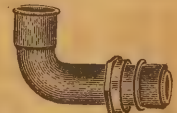
Brass Soldering Nipple



5-E-2903. Used to connect lead with iron pipe.

Size, inches... 1/2 3/4 1
Price, each... 14c 20c 27c
Size, inches... 1 1/4 1 1/2 2
Price, each... 35c 50c 68c

Rubber Extension Elbows



5-E-2901. Used to connect flush pipe with closet bowl; can be applied by anyone. Saves plumbers' bills. Adjustable from 3 1/4 to 5 1/4 inches from end of coupling to center of elbow.

Size, inches... 1 1/4
Price, each... 25c

GUARANTEED SOIL PIPE AND FITTINGS



SINGLE HUB SOIL PIPE		
No. 5-E-2301.	2 in. Std. single hub.....	\$0.90
No. 5-E-2303.	2 in. Ex. Hvy. single hub.....	1.20
No. 5-E-2305.	4 in. Std. single hub.....	1.55
No. 5-E-2307.	4 in. Ex. Hvy. single hub.....	2.50

Please Read!
Every length of soil pipe is thoroughly tested and fully guaranteed. Comes to you in 5 ft. lengths only.

DOUBLE HUB SOIL PIPE		
No. 5-E-2302.	2 in. Std. double hub.....	\$0.95
No. 5-E-2304.	2 in. Ex. Hvy. double hub.....	1.25
No. 5-E-2306.	4 in. Std. double hub.....	1.65
No. 5-E-2308.	4 in. Ex. Hvy. double hub.....	2.60

QUARTER BENDS

No. 5-E-2309.	2 inch Standard.....	30c
No. 5-E-2311.	2 in. Ex. Hvy.....	41c
No. 5-E-2313.	4 in. Standard.....	52c
No. 5-E-2315.	4 in. Ex. Hvy.....	63c

QUARTER BENDS—SIDE INLET—RIGHT OR LEFT HAND

No. 5-E-2317.	4 in. Std. 2 in. Inlet.....	92c
No. 5-E-2319.	4 in. Ex. Hvy. 2 in. Inlet.....	\$1.15

QUARTER BENDS—HEEL INLET

No. 5-E-2325.	4 in. Std. 2 in. Inlet.....	92c
No. 5-E-2327.	4 in. Ex. Hvy. 2 in. Inlet.....	\$1.15

QUARTER BENDS—DOUBLE HUB

No. 5-E-2333.	4 in. Standard.....	90c
No. 5-E-2335.	4 in. Ex. Hvy.....	\$1.04

LONG QUARTER BENDS

No. 5-E-2341.	4x18 in. Standard.....	\$1.12
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LONG QUARTER BENDS

No. 5-E-2343.	4x18 in. Ex. Hvy.....	\$1.38
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SIXTH BENDS

No. 5-E-2345.	2 in. Standard.....	30c
No. 5-E-2347.	2 in. Ex. Hvy.....	33c
No. 5-E-2348.	4 in. Standard.....	44c
No. 5-E-2349.	4 in. Ex. Hvy.....	55c

EIGHTH BENDS

No. 5-E-2350.	2 in. Standard.....	26c
No. 5-E-2351.	2 in. Ex. Hvy.....	30c
No. 5-E-2353.	4 in. Standard.....	44c
No. 5-E-2355.	4 in. Ex. Hvy.....	55c

"T" BRANCHES

No. 5-E-2357.	2x2 Standard.....	40c
No. 5-E-2359.	2x2 Extra Hvy.....	56c
No. 5-E-2360.	4x2 Standard.....	63c
No. 5-E-2361.	4x2 Extra Hvy.....	82c
No. 5-E-2363.	4x4 Standard.....	86c
No. 5-E-2365.	4x4 Ex. Hvy.....	\$1.04

SANITARY "T" BRANCHES

No. 5-E-2367.	2x2 Standard.....	41c
No. 5-E-2369.	2x2 Extra Hvy.....	56c
No. 5-E-2371.	4x2 Standard.....	63c
No. 5-E-2373.	4x2 Ex. Hvy.....	81c
No. 5-E-2375.	4x4 Standard.....	83c
No. 5-E-2377.	4x4 Ex. Hvy.....	\$1.04

SANITARY "T" BRANCH

No. 5-E-2379.	4x4 in. tapped 1 1/2 in. Std. for Iron Pipe, Right or Left Hand.....	\$1.78
No. 5-E-2381.	4x4 in. tapped 1 1/2 in. Extra Hvy.....	\$1.97

VENTILATING BRANCHES WITH SIDE INLET

No. 5-E-2569.	4x2 Standard.....	\$1.04
No. 5-E-2571.	4x2 Extra Hvy.....	\$1.52

SANITARY "T" BRANCH WITH SIDE INLET—RIGHT OR LEFT HAND

Cut shows L. H. Inlet.		
No. 5-E-2383.	4x4, with 2 in. Inlet, Standard.....	\$1.58
No. 5-E-2385.	4x4, with 2 in. Inlet, Ex. Hvy.....	\$1.77

SANITARY "T" BRANCH TAPPED FOR IRON PIPE

No. 5-E-2407.	2 x 1 1/2 Standard.....	56c
No. 5-E-2409.	2x1 1/2 Ex. Hvy.....	67c
No. 5-E-2411.	2x2 Standard.....	56c
No. 5-E-2413.	2x2 Extra Hvy.....	67c
No. 5-E-2415.	4x1 1/2 Standard.....	93c
No. 5-E-2417.	4x1 1/2 Extra Hvy.....	\$1.25
No. 5-E-2419.	4x1 1/2 Standard.....	93c
No. 5-E-2421.	4x1 1/2 Extra Hvy.....	\$1.25
No. 5-E-2423.	4x2 Standard.....	93c
No. 5-E-2425.	4x2 Extra Hvy.....	\$1.25

"T" BRANCH WITH HAND HOLE FOR CLEAN OUT

No. 5-E-2431.	4 in. Standard.....	\$1.47
No. 5-E-2433.	4 in. Ex. Hvy.....	\$1.70

CROSSES

No. 5-E-2439.	4 x 4 Standard.....	\$1.33
No. 5-E-2441.	4x4 Ex. Hvy.....	\$1.60

SANITARY CROSSES

No. 5-E-2447.	4 x 2 Standard.....	\$1.33
No. 5-E-2449.	4x2 Ex. Hvy.....	\$1.60
No. 5-E-2451.	4 x 4 Standard.....	\$1.33
No. 5-E-2453.	4x4 Ex. Hvy.....	\$1.60

TAPPED CROSSES

Side Opening for Standard Iron Pipe.		
No. 5-E-2459.	2x1 1/2 Standard.....	86c
No. 5-E-2461.	2x1 1/2 Extra Hvy.....	\$1.04
No. 5-E-2463.	2x2 Standard.....	86c
No. 5-E-2465.	2x2 Extra Hvy.....	\$1.04
No. 5-E-2471.	4x1 1/2 Standard.....	\$1.04
No. 5-E-2473.	4x1 1/2 Extra Hvy.....	\$1.36
No. 5-E-2475.	4x2 Standard.....	\$1.04
No. 5-E-2477.	4x2 Extra Hvy.....	\$1.36

SANITARY CROSSES TAPPED FOR STANDARD IRON PIPE

No. 5-E-2483.	2 x 1 1/2 Standard.....	93c
No. 5-E-2485.	2x1 1/2 Ex. Hvy.....	\$1.15
No. 5-E-2487.	2x2 Standard.....	93c
No. 5-E-2489.	2x2 Extra Hvy.....	\$1.15
No. 5-E-2495.	4x1 1/2 Standard.....	\$1.30
No. 5-E-2497.	4x1 1/2 Extra Hvy.....	\$1.58
No. 5-E-2499.	4x2 Standard.....	\$1.30
No. 5-E-2501.	4x2 Extra Hvy.....	\$1.58

"S" TRAPS WITH HAND HOLE AND COVER

No. 5-E-2689.	4 in. Std.....	\$1.73
No. 5-E-2691.	4 in. Ex. Hvy.....	\$2.29

SIDE OPENING BRANCHES TAPPED FOR IRON PIPE

No. 5-E-2387.	2x1 1/2 Standard.....	52c
No. 5-E-2389.	2x1 1/2 Extra Hvy.....	63c
No. 5-E-2391.	2 x 2 Standard.....	52c
No. 5-E-2393.	2 x 2 Extra Hvy.....	63c
No. 5-E-2395.	4x1 1/2 Standard.....	75c
No. 5-E-2397.	4x1 1/2 Extra Hvy.....	93c
No. 5-E-2399.	4x1 1/2 Standard.....	75c
No. 5-E-2401.	4x1 1/2 Extra Hvy.....	93c
No. 5-E-2403.	4x2 Standard.....	75c
No. 5-E-2405.	4x2 Extra Hvy.....	93c

OFF-SETS

No. 5-E-2502.	2 x 2 Standard.....	41c
No. 5-E-2503.	2x2 Extra Hvy.....	55c
No. 5-E-2504.	4 x 2 Standard.....	63c
No. 5-E-2505.	4x2 Extra Hvy.....	81c
No. 5-E-2506.	4x4 Standard.....	86c
No. 5-E-2507.	4x4 Ex. Hvy.....	\$1.04

VENTILATING CAPS

No. 5-E-2509.	4x6 Standard.....	67c
No. 5-E-2511.	4 x 6 Extra Hvy.....	81c
No. 5-E-2513.	4x12 Standard.....	\$1.33
No. 5-E-2515.	4x12 Extra Hvy.....	\$1.94

PIPE RESTS

No. 5-E-2625.	2 in. Standard.....	22c
No. 5-E-2627.	2 in. Ex. Hvy.....	29c
No. 5-E-2629.	4 in. Standard.....	30c
No. 5-E-2631.	4 in. Ex. Hvy.....	32c

ADJUSTABLE ROOF FLANGE

Made of Galvanized Iron—will fit any pitch.

No. 5-E-1085.	14 in.....	90c
No. 5-E-1087.	1 1/2 in.....	90c
No. 5-E-1089.	2 in.....	\$1.00
No. 5-E-1091.	4 in.....	\$1.20
No. 5-E-1091 1/2.	5 in.....	\$1.70

TAPPED INCREASERS—SMALL OPENING TAPPED FOR STANDARD PIPE

No. 5-E-2573.	1 1/2 to 4 in. Standard.....	\$1.12
No. 5-E-2575.	1 1/2 to 4 in. Extra Hvy.....	\$1.37
No. 5-E-2577.	2 to 4 in. Standard.....	\$1.12
No. 5-E-2579.	2 to 4 inch Extra Hvy.....	\$1.37

REDUCERS

No. 5-E-2581.	4 to 2 inch Standard.....	30c
No. 5-E-2583.	4 to 2 inch Extra Hvy.....	32c

DOUBLE HUBS

No. 5-E-2585.	2 inch Standard.....	30c
No. 5-E-2587.	2 inch Extra Hvy.....	33c
No. 5-E-2589.	4 inch Standard.....	45c
No. 5-E-2590.	4 inch Extra Hvy.....	56c

"S" TRAPS

No. 5-E-2634.	4 in. Standard.....	\$1.12
No. 5-E-2635.	4 in. Ex. Hvy.....	\$1.38

HALF "S" TRAPS

No. 5-E-2645.	2 in. Standard.....	67c
No. 5-E-2647.	2 in. Extra Hvy.....	81c
No. 5-E-2649.	4 in. Standard.....	\$1.12
No. 5-E-2651.	4 inch Extra Hvy.....	\$1.38

RUNNING TRAPS

No. 5-E-2657.	4 in. Std.....	\$1.12
No. 5-E-2659.	4 in. Extra Hvy.....	\$1.38

ROOF PLATES

No. 5-E-2607.	4 in. Standard.....	56c
No. 5-E-2609.	4 in. Ex. Hvy.....	67c

HALF "S" TRAPS WITH HAND HOLE AND COVER

No. 5-E-2713.	4 in. Std.....	\$1.73
No. 5-E-2715.	4 in. Extra Hvy.....	\$2.30

RUNNING TRAPS WITH HAND HOLE AND COVER

No. 5-E-2745.	4 in. Std.....	\$1.73
No. 5-E-2747.	4 in. Extra Hvy.....	\$2.30

LONG INCREASERS FOR CALKING

No. 5-E-2717.	2 to 4 x 24 in. long Standard.....	93c
No. 5-E-2719.	2 to 4 x 24 in. long. Extra Hvy.....	\$1.15
No. 5-E-2737.	4 to 5 in., 30 in. long. Standard.....	\$1.48
No. 5-E-2739.	4 to 5 in., 30 in. long. Extra Hvy.....	\$1.80

LONG INCREASERS TAPPED FOR IRON PIPE

No. 5-E-2723.	4 x 24 tapped 2 in. Standard.....	\$1.65
No. 5-E-2727.	4 x 24 tapped 2 in. Extra Hvy.....	\$2.00

CLEAN OUT PLUGS

Iron Ferrule with Brass Trap Screw.		
No. 5-E-2759.	2 in.....	27c
No. 5-E-2761.	4 in.....	43c

CAST IRON CESSPOOLS WITH BELL TRAPS

No. 5-E-2753.	6 x 6.....	50c
No. 5-E-2755.	9 x 9.....	70c
No. 5-E-2757.	12 x 12.....	\$1.20

Injectors and Lubricators

Leader Injector



\$6⁷⁰

5-E-6002. Has no movable parts in its internal construction. No loose valves, rings or springs to get out of order. Has a great range of work under various conditions. It heats feed water to 200 degrees or more, according to conditions, making it very efficient, and by feeding through a closed "heater" efficiency is unequalled.

No. Inj.	Size of pipes of Steam Suction Pipe & Feed	Horse Power of Boiler Will Feed	Gallons per hour 80 lbs. Steam	Price Each
1	3/8"	3 to 7	60	\$ 6.70
2	1/2"	7 to 10	90	7.55
3	3/4"	12 to 18	150	8.20
4	1"	18 to 25	220	10.50
5	1 1/4"	25 to 35	300	12.60
6	1 1/2"	35 to 45	400	14.70
7	1 3/4"	45 to 60	500	16.80
8	2"	60 to 70	600	18.90
9	2 1/4"	70 to 90	750	23.10
10	2 1/2"	100 to 125	1000	27.30



Polished Brass Oil Cups

5-E-6019. High grade oil cups, made of brass nicely polished.

Diam. of Body	Pipe, Size, Inches	Price Each
1"	1/8"	\$0.25
1 1/4"	1/4"	.30
1 1/2"	3/8"	.45
2"	1/2"	.75
		1.20

Plain Brass Grease Cups



5-E-6021.

Size	Inside Dia., Inches	Shank Thread	Grease Ozs.	Price Each
00	1"	1/8"	1/2	\$0.35
0	1 1/4"	1/4"	3/4	.45
1	1 1/2"	1/4"	1	.57
2	2"	3/8"	1 1/2	.75
3	2 1/4"	1/2"	3 1/2	1.10
4	3"	1/2"	5	1.45

Chicago Double Connection Sight Feed Lubricator

For Stationary Engines



5-E-6011. The condenser valve is a separate piece and not part of the body, thus insuring ease of cleaning and small cost for repairs. It is provided with an ample heating chamber, which insures the oil remaining fluid even when exposed to the most severe weather. The lower feed iron is provided with a drain stem by which the sight glass may be blown out and cleaned without removing from lubricator. Each lubricator is subjected to a rigid test before leaving the factory and guaranteed to work perfectly if connected and operated properly.

Size	For Cylinder Inches	Pipe Thread on Pipe Arm	Price Brass Finish
1/4 pt.	under 10	1/4 inch	\$ 3.00
1/2 pt.	10 to 12	1/4 inch	3.20
1 pt.	12 to 18	1/4 inch	10.20
1 qt.	18 to 30	1/2 inch	12.40
1/2 gal.	30 and over	1/2 inch	15.00

Chicago Automatic Injector



5-E-6008. Simplest automatic injector. Consists of three tubes, a body or shell and one check valve and bushing, held to place by screw thread joints and cannot drop out and become lost. The steam jet and forcing tube may be removed by monkey wrench and cleaned without breaking any pipe joints or removing injector from boiler. Will start low from 15 to 20 lbs. steam pressure on 4 ft. lift and will work high from 135 to 145 lbs. steam pressure, or on a 20 to 22 ft. lift with a 60 to 90 lb. steam pressure. Will work water 120 to 125 degrees hot.

Size	Pipe con. Inches	Cap. per Hour on Ordinary Tub. Boiler	Price
No. 00	3/8"	80	\$ 4.20
No. 0	1/2"	135	4.75
No. 1	3/4"	180	5.25
No. 2	1"	260	6.55
No. 3	1 1/4"	355	7.65
No. 4	1 1/2"	475	10.50
No. 5	1 3/4"	600	11.85
No. 6	2"	800	15.55

Automatic Grease Cups for Bearings of All Kinds

5-E-6602.



Size	Inside Dia., Inches	Shank Thread	Pipe (Grease) Ozs.	Price Each
00	1/8"	1/8"	1/2	\$0.90
0	1 1/4"	1/4"	1	1.15
1	1 1/2"	1/4"	1 1/2	1.45
2	2"	3/8"	3	1.85
3	2 1/4"	1/2"	6	2.45



Sight-feed Snap Lever Glass Oil Cups

5-E-6601. We wish to call your particular attention to the fact that it is not necessary to adjust the feed each time, it being so constructed that when the desired feed is once set it can be stopped and started at will without resetting. This particular feature will save much trouble and annoyance.

Size	Outside Dia. of Glass	Height of Glass	Capacity, Ounces	Shank Pipe, Thread	Brass finish, Price, each
0	1 1/4"	1 1/8"	1/2	1/8"	\$1.15
1	1 1/2"	1 3/8"	1	1/4"	1.25
1 1/2	1 3/4"	1 5/8"	1 1/2	3/8"	1.30
2	2"	1 7/8"	2 1/2	1/2"	1.40
3	2 1/4"	2 1/8"	4	3/4"	1.65
4	2 1/2"	2 3/8"	5	1"	2.00
5	3"	3"	10	1 1/2"	2.75

Steam Gauges



5-E-9611. Japanned iron case brass ring, complete with cock. They should not be used on traction or portable rigs. Always use a syphon with all steam gauges. These gauges register up to 300 lbs. for low pressure and up to 200 lbs. for high pressure. Give pressure wanted when ordering.

Size dials, inches	Price, each
3 1/2"	\$2.10
4 1/2"	2.25

Rubber Gauge Glass Washers

5-E-9523.



For	Price per doz.
1/2 inch gauge glass	\$0.15
3/4 inch gauge glass	.18
1 inch gauge glass	.20

Double Connection Sight Feed Lubricator



5-E-6015. For steam pumps, stationary and portable engines.

This is a medium priced, reliable lubricator for use on steam pumps and stationary engines which are exposed to the cold, and possesses all the advantages and features as contained in the Chicago single connection lubricator of the same style.

Size	1/4 pt.	1/2 pt.	3/4 pt.	1 pt.	1 qt.
Pipe thread, in.	1/2	3/4	1	1 1/4	1 1/2
Price, each	\$6.80	\$7.00	\$7.40	\$9.60	\$11.40

Brass Steam Whistles

5-E-6535.

Made of high grade steam metal and furnished complete with spring valves.



Diam. of Bell	Size of Pipe connection	Price
1 1/4"	3/8"	\$ 2.65
1 1/2"	1/2"	3.25
1 3/4"	3/4"	3.45
2"	1"	4.70
2 1/4"	1 1/4"	7.75
3 1/4"	1 1/2"	9.75
4"	1 3/4"	12.60

Water Gauges



5-E-9501. With brass body, iron wheels, two guards to protect glass tube.

Size Glass Ins. Price Each

1/2" \$1.60

3/4" 1.75

1" 2.65

Scotch Glass Tubes for Water Gauges



5-E-9525.

Length, Ins.	Price, Doz.	Price, Doz.	Price, Doz.
10	\$1.15	\$1.17	\$1.36
11	1.21	1.23	1.50
12	1.35	1.37	1.62
13	1.44	1.46	1.80
14	1.58	1.60	1.94
15	1.67	1.70	2.07

Black Wrought Steel Pipe Galvanized

New Black and Galvanized Pipe

6-E-7. Brand new black and galvanized wrought steel pipe, fully tested and guaranteed. Best quality made, easily cut and threaded. Comes in standard full lengths ranging from 18 to 21 feet; each length threaded on both ends fitted with coupling on one end. Prices below are for full lengths only as it comes from the mill and are based on latest market prices. All prices shown are for quantities up to 1,000 feet. Ask for special prices on larger quantities. Freight prepaid prices quoted on request. Size of pipe determined by its inside diameter.

Inside Diameter Inches	Outside Diam. inches.	Weight, Per ft., Lbs.	Price, Per ft., Black	Price, Per ft., Galv.
Three-eighths.....	0.67	0.56	\$0.04 1/2	\$0.06 1/2
One-half.....	0.84	0.85	.05 1/2	.07 1/2
Three-quarters.....	1.05	1.13	.07	.09
One.....	1.31	1.68	.10	.12 1/2
One and one-quarter.....	1.66	2.28	.13 1/2	.17
One and one-half.....	1.9	2.73	.16	.20
Two.....	2.37	3.67	.22	.27
Two and one-half.....	2.87	5.81	.34	.43
Three.....	3.5	7.61	.44	.56
Three and one-half.....	4.	9.20	.56	.71
Four.....	4.5	10.88	.67	.85
Four and one-half.....	5.	12.64	.78	
Five.....	5.56	14.81	.91	
Six.....	6.62	19.18	1.18	

We can furnish all sizes up to 12 inches. Write for prices on larger sizes.

Boiler Tubes for Retubing Purposes

6-E-9. Carefully selected over-hauled boiler tubes guaranteed satisfactory for retubing boilers of every kind. All tubes tested and inspected before shipment. Orders are accepted with the understanding that unsatisfactory boiler tubes can be returned to us, upon inspection we will cheerfully exchange them for other tubes or return your money. These tubes are cut to lengths, they have square ends and are perfectly straight.

Outside Diam., ins.	Inside Diam., ins.	Wt., per ft.	Price, per ft.
Two.....	1.81	1.93	\$0.08
Two and one-quarter.....	2.06	2.18	.12
Three.....	2.78	3.36	.15
Three and one-quarter.....	3.01	4.01	.16
Three and one-half.....	3.26	4.33	.17
Four.....	3.73	5.53	.18

All Pipe Prices Above Are Subject to Market Changes and Stock on Hand

Overhauled Black Pipe

6-E-5. Used pipe carefully over-hauled and selected for steam, water, gas, oil, railing and general purposes. Always a big stock on hand which comes to us in connection with our big purchases of complete plants and dismantling contracts. Ends are carefully cut off, properly threaded where necessary and supplied with good couplings. Painted with good asphalt paint before shipment. All pipe straight and free from defects. Random lengths. Prices are for quantities up to 1,000 feet. Freight prepaid prices on request. Write for special prices on larger quantities.

Inside Diameter, ins.	Outside Diam. Inches	Wt., per ft., lbs.	Price, per ft., Black
Three-eighths.....	0.67	0.56	\$0.02
One-half.....	0.84	0.85	.03
Three-quarters.....	1.05	1.13	.04
One.....	1.31	1.68	.06
One and one-quarter.....	1.66	2.28	.08
One and one-half.....	1.9	2.73	.09
Two.....	2.37	3.67	.11
Two and one-half.....	2.87	5.81	.17
Three.....	3.5	7.61	.26
Three and one-half.....	4.	9.20	.30
Four.....	4.5	10.88	.40
Four and one-half.....	5.	12.64	.45
Five.....	5.56	14.81	.50
Six.....	6.62	19.18	.75
Seven.....	7.62	23.76	.90
Eight.....	8.62	28.80	.95

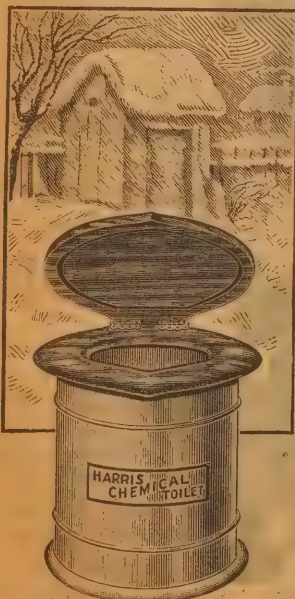
Prices on larger sizes on application.

Pipe at Government Cantonment Camp

Our recent purchases of numerous big Army Camps enable us to offer you an excellent grade of black and galvanized Wrought Steel slightly used pipe. Also a large stock of Wood Stave Pipe, Steel Culvert Pipe, and Cast Iron Pipe in various sizes. This pipe has all been carefully selected and put in first-class condition. We have pipe on hand at

CAMP JACKSON

If interested in any pipe from these Camps, kindly send us a list of your requirements. We will be pleased to submit prices.



It has replaced the dangerous out-house in thousands of homes.

Chemical Indoor Toilet

Better
than
Any Other

\$6.95

Try It
for
30 Days

We Guarantee The Harris Chemical Indoor Closet to be the most efficient toilet of its kind—absolutely odorless and sanitary, exactly as described on this page.
HARRIS BROTHERS CO.

Gives You the Convenience of the Modern Toilet!

Protect your family against the dangers and inconvenience of the outdoor privy—eliminate forever the breeding place of flies and contagious disease germs. A clean, sanitary method of sewage disposal—a modern toilet easily within the reach of everyone now.

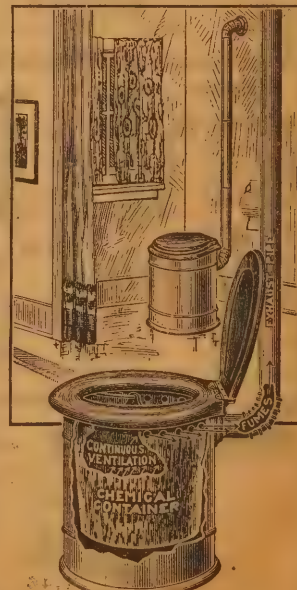
The Harris Chemical Indoor Closet is fitted with the regular shaped closet seat and cover highly finished in birch mahogany. The base and frame work of the outer casing are made of solid cast metal. The outer casing is made of rolled sheet steel, which, together with all other metal parts, including 9 feet of 3-inch exhaust pipe, are beautifully enameled in gray.

5-E-1816. Harris Chemical Indoor Closet, including two elbows, six lengths of 3-inch pipe, 12 inches long, wall collar, one pound of Harris guaranteed chemical disinfectant (about 6 months' supply) carefully packed in wood box. **\$6.95**

EXTRAS

Harris chemical disinfectant. Per gallon..... **\$1.50**
Extra exhaust pipe, per 12-inch length..... **25c**

Roof saddles, each..... **75c**
Extra elbows, each..... **25c**
Chemical cannot be sent by parcel post.



Gives you the comforts of Modern plumbing without the expense.

CAST IRON

FITTINGS

MALLEABLE



Tee.



Bushing.

Return Bend
Closed.45-deg. El-
bow.

Nipple.



Union.

Side Open-
ing Elbow.Reducing
Elbow.

Reducer.



Floor Plate

Cast Iron Fittings For Standard Wrought Iron Pipe are made of the best grade of material, carefully tapped, inspected before shipment, and guaranteed with uniform and perfect threads, suitable for a working pressure up to 125 lbs.; used on power plants, low pressure steam and hot water plants. In ordering fittings be sure and give the inside measurements of the pipe you will use the fittings with, as all pipe is listed by inside measurement only and fittings correspond. Give figure, number and price when ordering. Sizes not listed, furnished on application.

Size		3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
21-E-1.	Elbows, 90°	.05	.07	.09	.13	.17	.24	.41	.61	1.00
21-E-2.	Elbows, 45°	.06	.09	.10	.16	.20	.29	.50	.75	1.17
21-E-3.	Elbows, Reducing	.06	.08	.10	.16	.19	.27	.50	.71	1.18
21-E-4.	Elbows, R. & L.	.06	.08	.10	.16	.19	.27	.50	.71	1.18
21-E-5.	Tees	.08	.10	.14	.19	.24	.34	.61	.91	1.47
21-E-6.	Tees, Reducing	.08	.12	.14	.23	.28	.39	.70	1.05	1.68
21-E-7.	Crosses	.13	.21	.23	.35	.45	.63	1.09	1.68	2.65
21-E-8.	Crosses, Reducing	.15	.21	.25	.39	.50	.67	1.22	1.85	2.94
21-E-9.	Plugs, Black	.02	.02	.03	.04	.07	.07	.15	.22	.30
21-E-10.	Plugs, Galvanized	.03	.05	.07	.09	.11	.17	.29	.42	.69
21-E-11.	Bushings, Black	.03	.05	.06	.07	.08	.10	.17	.25	.42
21-E-12.	Bushings, Galvanized	.06	.10	.12	.14	.16	.20	.34	.50	.84
21-E-13.	Caps, Black	.02	.02	.03	.04	.07	.07	.15	.22	.30
21-E-14.	Couplings, R. & L.	.12	.16	.21	.27	.32	.54	.86	1.42	2.38
21-E-15.	Couplings, Black	.07	.11	.14	.18	.23	.30	.43	.64	1.07
21-E-16.	Couplings, Galvanized	.11	.14	.19	.27	.34	.44	.59	.86	1.50
21-E-17.	Flange Unions	.32	.39	.44	.54	.66	.83	1.05	1.26	1.77
21-E-18.	O. P. Return Bends	.17	.22	.25	.34	.46	.67	.86	1.26	2.00
21-E-19.	C. P. Return Bends	.15	.17	.18	.24	.34	.48	.63	1.05	1.77
21-E-20.	Reducers							1.26	2.00	3.38
21-E-21.	Nipples, Short, Black	.04	.05	.06	.08	.09	.13	.28	.34	.57
21-E-22.	Nipples, Long, Black	.05	.06	.09	.12	.14	.19	.42	.51	.80
21-E-23.	Nipples, Short, Galvanized	.05	.06	.08	.12	.15	.20	.41	.51	1.00
21-E-24.	Nipples, Long, Galvanized	.09	.10	.14	.21	.26	.34	.63	.80	1.42
21-E-25.	Nipples, R. & L. Black	.07	.09	.13	.16	.19	.26	.43	.64	1.07

Malleable Iron Fittings For Standard Wrought Iron Pipe are made of the best grade of malleable iron, great care being used in the selection of material and their manufacture; all fittings are inspected and tested before shipment, guaranteed water, air and gas tight. Give figure, number and price when ordering.

Size		3/4	1	1 1/4	1 1/2	2
21-E-26.	Elbows, Black	.05	.06	.07	.10	.17
21-E-27.	Elbows, Galvanized	.07	.09	.13	.16	.26
21-E-28.	Elbows, Reducing, Galvanized	.06	.08	.10	.15	.21
21-E-29.	Elbows, 45°, Galvanized	.05	.06	.09	.12	.20
21-E-30.	Elbows, 45°, Black	.04	.05	.09	.12	.21
21-E-31.	Elbows, Street, Black	.04	.08	.10	.11	.17
21-E-32.	Elbows, Street, Galvanized	.06	.10	.13	.17	.27
21-E-33.	Tees, Black	.05	.08	.09	.12	.22
21-E-34.	Tees, Galvanized	.08	.11	.12	.19	.33
21-E-35.	Tees, Reducing, Galvanized	.08	.11	.15	.20	.35
21-E-36.	Crosses, Galvanized	.09	.14	.22	.33	.38
21-E-37.	Reducers, Galvanized	.04	.05	.09	.14	.16
21-E-38.	Caps, Black	.02	.04	.05	.09	.10
21-E-39.	Caps, Galvanized	.03	.05	.08	.12	.15
21-E-40.	Return Bends, O. P.	.06	.10	.18	.26	.31
21-E-41.	Lock Nuts, Galvanized	.02	.03	.04	.07	.08
21-E-42.	Unions, Black	.13	.15	.18	.22	.31
21-E-43.	Unions, Galvanized	.20	.22	.27	.33	.46



Cross.



Plug.

Reducing
Tee.Flange
Union.

Elbow.

Street
Elbow.

Lock Nut.

Return
Bend Open

Cap.

Ceiling
Plate.

Cast Iron Black Drainage Fittings Threaded for Wrought Iron Pipe

These fittings have an interior shoulder to which the pipe screws up flush, thus giving an unobstructed passage, preventing pipe from becoming choked up by any solid matter.

Drainage
Basin Tee

21-E-124.

Size, 1 1/2 inches. Price, .47c

Size, 2 inches. Price, .70c

Drainage Street
Elbow

21-E-125.

Size, 1 1/2 inches. Price, .36c

Wrought Iron
Long Screw

21-E-126.

With Coupling and Lockout, Faced.

Galvanized.

Size, 1 1/4"x1 1/2" long. Price, .96c

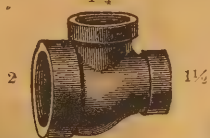
Size, 2"x2" long. Price, 1.60c

ALL PRICES ON THIS PAGE SUBJECT TO CHANGE How to Order Reducing Tees and Crosses

Reducing Tees

1st. Always give end or run openings. Then side openings.

Example
1 1/4

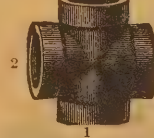


Order should read: "2x1 1/2x1 1/4."

Reducing Crosses

Always mention all openings. Reading straight across, then up and down.

Example
1



Order should read: "2x2x1x1."

CAST IRON FLANGE

When ordering cast iron flanges be sure to mention size of pipe and diameter of flange. We can furnish in three ways: "Not Faced or Drilled," "Faced" and "Faced and Drilled." When ordering be sure to give size, figure number and price. Bolts are extra.

21-E-201. 2nd. Cast Iron Flange. Faced.
21-E-202. 3rd. Cast Iron Flange. Faced and Drilled.

Inside Flange, Inch.	Outside Flange, Inch.	"Faced."	"Faced and Drilled."	Inside Flange, Inch.	Outside Flange, Inch.	"Faced."	"Faced and Drilled."
2 1/4	6	\$0.60	\$0.82	4	9	\$1.10	\$1.47
3	7	.70	.88	5	10	1.30	1.65
3 1/2	7 1/2	.80	1.00	6	11	1.62	2.05
4	8 1/2	.96	1.25				

Wrought Iron Pipe Cast Iron Black Drainage Fittings. Threaded.

NOTICE.—The sizes given for fittings refer to the size of the pipe on which fittings are to be used. Carefully measure the inside of the pipe. NOT the coupling, and order by this size.

96 Degree Drainage Elbow

Size, 1 1/2 inches. Price, .31c
Size, 2 inches. Price, .47c

45 Degree Drainage Elbow

Size, 1 1/2 inches. Price, .31c
Size, 2 inches. Price, .47c

45 Degree Y Drainage

Size, 1 1/2 inches. Price, .54c
Size, 2 inches. Price, .79c

Branch Tees and Manifolds

All openings or runs in manifolds are tapped right hand thread. Figure No. 1 is tapped right hand thread both run and branches. Figures No. 2 and 3 are tapped left hand thread so when ordering manifolds it is necessary always to order one Figure No. 1 in connection with either Figure No. 2 or 3 as this will then give you one manifold with a right hand thread and one with a left hand thread.

When figuring the price on Figures No. 2 and 3 manifolds, always take the price of the one branch larger on account of the back opening being charged as a branch. In other words, if you wish to order a six branch manifold Figure No. 2 or 3, the price would be the same as that of a No. 7. This only applies to Figures No. 2 and 3.

All Prices on This Page Subject to Change



Fig. 1



Fig. 2



Fig. 3

1 in. Branch Tees 1 in. or 1 1/4 in. run are 1 1/4 in. inside diameter.
1 in. Branch Tees 1 1/2 in. or 2 in. run are 2 1/4 in. inside diameter.
1 1/2 in. Branch Tees are all 2 1/2 in. inside diameter.

1 1/2 in. Branch Tees are all 2 1/2 in. inside diameter.
2 in. Branch Tees are all 3 1/2 in. inside diameter.
Always order Branch Tees by size and figure number.

No. of Branches	1" Branch Tees, 2 1/2" C. to C.			1 1/2" Branch Tees, 3" C. to C.			1 1/2" Branch Tees, 3 1/2" C. to C.			2" Branch Tees, 4 1/2" C. to C.		
	1" or 1 1/4" Run	1 1/2" Run	2" Run	1 1/2" or 1 3/4" Run	2" Run	2 1/2" Run	1 1/2" or 2" Run	2 1/2" Run	3" Run	2" or 3" Run	2 1/2" or 3" Run	3 1/2" Run
2	\$0.84	\$0.93	\$1.07	\$1.57	\$1.74	\$2.24	\$2.52	\$3.23	\$3.55	\$4.91	\$5.37	\$5.37
3	1.98	1.03	1.26	1.57	1.74	2.24	3.13	3.88	4.30	5.98	6.54	6.54
4	1.37	1.11	1.50	1.57	1.74	2.24	3.13	3.88	4.30	7.14	7.94	7.94
5	1.09	1.11	1.50	1.57	1.74	2.24	3.13	3.88	4.30	8.23	9.11	9.11
6	1.48	1.11	1.50	1.57	1.74	2.24	3.13	3.88	4.30	10.74	11.91	10.93
7	1.74	1.11	1.50	1.57	1.74	2.24	3.13	3.88	4.30	11.44	12.61	12.61
8	2.05	1.11	1.50	1.57	1.74	2.24	3.13	3.88	4.30	12.61	14.02	14.02
9	2.48	1.11	1.50	1.57	1.74	2.24	3.13	3.88	4.30			
10				1.57	1.74	2.24	3.13	3.88	4.30			
11				1.57	1.74	2.24	3.13	3.88	4.30			
12				1.57	1.74	2.24	3.13	3.88	4.30			

Sectional Spring Tube Expander

Prossor Type



4-E-9002.

The Prossor Type Sectional Spring Tube Expanders. A heavy, substantial tool, same style as used in boiler shops. Made of the highest grade tool steel for 3/4 inch boiler. In ordering be sure and give outside diameter of tubes.
Size, ins. . . 1 1/4 2 2 1/4 2 3/4 3
Price, each. \$5.40 \$5.50 \$6.90 \$8.00 \$11.70

Expansion Flue Brushes



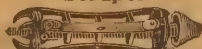
CLOSED

OPEN

4-E-9009. Made of malleable Iron and tempered steel. Sizes given are for flues outside diameter.

Size Inches	Price Each	Size Inches	Price Each
1 1/4	\$1.20	2 1/4	\$1.50
1 1/2	1.25	3	2.80
2	1.35	3 1/4	2.10
2 1/4		4	2.40

Engineers' Favorite Flue Scraper



4-E-9007. Has adjustable screw and good cutting edges that enable the operator to clean flues thoroughly. Sizes given are for tubes, outside diameter.

Size Inches	Price Each	Size Inches	Price Each
1 1/4	\$0.55	2 1/4	\$1.15
1 1/2	.60	3	1.10
2	1.05	3 1/4	1.00
2 1/4		4	1.00



4-E-9000. Beading tool for beading end of boiler tubes. Price, each. .90c

Railing Fittings (Malleable Iron)

No. 1

No. 2

No. 3

No. 4



R.H.

R.H.



R.H.

21-E-96. To be used in connection with Standard Pipe for the purpose of constructing fences and enclosures of all kinds.

PLEASE READ WITH CARE—To construct a railing, two pipes high, the upper outlet of all fittings in the lower rail should be tapped with left hand thread. As fittings used for this purpose do not need to be steam or water tight, a sufficiently clean thread to screw up well and make a good job can be made by running a left hand tap into any outlet tapped right hand. Be sure to mention when ordering Right or Left Hand.

Order from figure number above—note illustration.

Sizes, inches	1/2	3/4	1	1 1/4	1 1/2	2
No. 1. Elbow	\$0.06	\$0.10	\$0.14	\$0.23	\$0.32	\$0.57
No. 2. Elbow Side Outlet	.07	.11	.15	.25	.35	.60
No. 3. Tee	.06	.10	.14	.23	.33	.60
No. 4. Tee, S. Outlet	.07	.11	.15	.25	.35	.60
No. 5. Cross	.08	.12	.16	.27	.37	.65
No. 6. Cross, S. Outlet	.10	.15	.18	.30	.40	.70
No. 7. Floor Flange	.07	.11	.15	.25	.35	.60
No. 8. Acorn Ornaments	.06	.10	.14	.23	.32	.57

Drop Fittings in Black and Galvanized



Long Drop Short Drop Ells Drop Tees

Elbows	Bk.	Gal.	Bk.	Gal.
3/8 Bk. 3c	8c	11c	9c	12c
3/8 Gal. 11c	15c	13c	19c	

Cast Iron Floor Flanges

Drilled for Screws

21-E-210



Cast Iron Hook Plates

For Pipe Spread of

NUMBER OF HOOKS

No. Inch Hooks	1	2	3	4	5	6
21-E-79	1 1/4	10c	19c	24c	27c	33c
21-E-80	1 1/2	11c	22c	28c	33c	42c
21-E-81	1 3/4	15c	29c	44c	60c	75c
21-E-82	2	23c	45c	67c	93c	\$1.19

Galvanized Goose-Neck Hydrants

21-E-805. A low priced, efficient hydrant, which is made in galvanized pipe only. The goose-neck has a standard hose thread to which the hose can be attached for fire protection purposes, lawn sprinkling, etc. The valve, which is placed below the frost line, is brass, and is so arranged that it will drain the hydrant when shut off, thus preventing freezing. The hydrant is provided with shut-off rod, complete, as shown in illustration.

Lgth. ft.	4	5	6
Size, 1/2	\$3.15	\$3.35	\$3.55
1	4.50	4.70	4.95
1 1/2	6.80	7.00	7.20

Boiler Tube Ferrules

21-E-9527. Seamless Copper Boiler Tube Ferrules. Used on ends of boiler tubes to make a perfect fit and a tight job. Sizes are for tubes outside diameter.

Sizes	Width, Inches	Thickness of Copper, Inches	Price Each
1 1/4	3/8	1-32	\$0.07
1 1/2	3/8	1-32	.08
2	3/8	1-32	.09
2 1/4	3/8	1-32	.10
2 1/2	3/8	1-32	.11
3	3/8	1-32	.13
3 1/2	3/8	1-32	.18

Roller Tube Expander

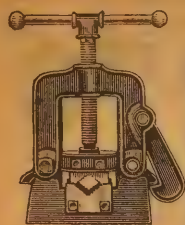
Dudgeon Pattern



4-E-9003. This expander has a solid body, thus avoiding constant breaking of cap screws. Made of the best material and finely finished. Sizes given are for outside diameter tubes. If your tube measures 2 inches outside diameter you would then require a 2 inch Expander.

Size Inches	Price Each	Size Inches	Price Each
1 1/4	\$4.00	2 1/2	\$5.60
1 1/2	4.05	3	7.20
2	4.10	3 1/4	9.20
2 1/4	4.80	4	12.00

Tools to Install Heating Plant



Pipe Vise.



Chain Wrench for Large Pipe



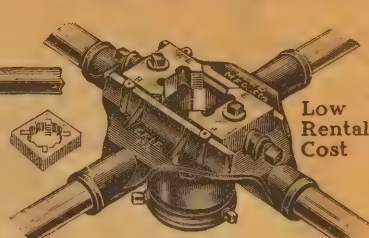
Pipe Cutter.



Pipe Wrench for Small Pipes



Stock and Dies for Small Pipe.



Stock and Dies for Large Pipe.

Low Rental Cost

The tool sets below have been carefully assembled to give our customers a complete equipment of best tools for the installation of Heating Systems. After you have decided upon the set you will need to complete your work, you will find by comparison that the low prices we are asking offer a substantial saving. The tools included in these outfits are of real high quality

and with ordinary care will give you long service. If you wish to do so, we will allow you the privilege of returning tool sets described below after you have finished installing your heating plant and will refund you for all tools returned in good condition, 90 per cent of the purchase price. This nominal charge of 10 per cent for the use of the tools barely covers our expense in handling.

Complete Sets of Heating Plant Tools

4-E-100. The following tools are all of the finest quality and this set is recommended for use in installing heating plants where pipe not larger than 2 inches in diameter is used. The set consists of:

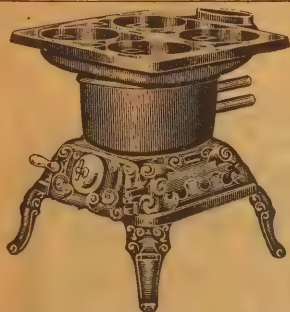
- 1 Pipe Vise for up to 2½ inch pipe.
- 1 Stock and Dies for ¼ to 1 inch pipe.
- 1 Stock and Dies for 1½, 1½ and 2 inch pipe.
- 1 14 inch Pipe Wrench, takes ½ to 1½ inch pipe.
- 1 18 inch Pipe Wrench, takes ½ to 2 inch pipe.
- 1 Pipe Cutter, cuts 1 inch to 2 inch pipe.
- 1 Pipe Cutter, cuts ½ to 1 inch pipe.

\$23.50

4-E-101. Tools all of finest quality. This set is recommended for installing heating plants where pipe up to 3 inches in diameter is used. The set consists of:

- 1 Pipe Vise, takes ½ inch to 3 inch pipe.
- 1 Stock and Dies, takes ½ inch to 1 inch pipe.
- 1 Stock and Dies, takes 1½, 1½ and 2 inch pipe.
- 1 Stock and Adjustable Dies for 2½ and 3 inch pipe.
- 1 14 inch Pipe Wrench for ¼ to 1½ inch pipe.
- 1 18 inch Pipe Wrench for ½ to 2 inch pipe.
- 1 27 inch Chain Wrench for 1½ to 3 inch pipe.
- 1 Pipe Cutter, cuts ½ inch to 1 inch pipe.
- 1 Pipe Cutter, cuts 1 inch to 2 inch pipe.
- 1 Pipe Cutter, cuts 2 inch to 3 inch pipe.

\$60.00



2-Hole Laundry Stove
Made With Hollow Water Heating Firepot

17-E-350. Strongly built of smooth gray iron castings; hollow water heating fire pot. Inside diameter of fire pot at top, 10½ inches. Diameter of grate, 8 inches. Size of top, 14x20 inches. 1 inch pipe connection. 6 inch pipe collar.

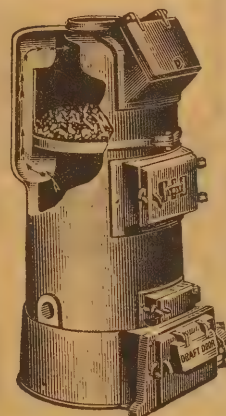
\$11.75

17-E-300. Extra heavy 11½ inch diameter fire pot at top. 9½ inch grate. Size of top, 21x23.

Price **\$15.25**

Garbage Burner and Tank Heater

\$65



Here is a combination tank heater and garbage burner that reduces the fuel cost to the minimum. At the upper part of the heater is a large compartment with large feed door where the fresh garbage is thrown in and left until it is dried by the heat, then thrown into fire pot by means of swinging bottom. Absolutely odorless. Ideal for homes, apartment houses, hotels, etc. Burns any other fuel as well. Made entirely of heavy cast iron, so constructed as to provide perfect expansion and contraction. Diameter of grate, 14 inches. Inlet and outlet 1½ inches. Capacity 250 gallons.

17-E-1200. Price **\$65.00**



4-Hole Laundry Stove
Made With Hollow Water Heating Firepot

17-E-450. Four hollow water heating laundry stove. Four 8 inch lids. Inside diameter of fire pot at top, 10½ inches. Diameter of grate, 8 inches. Size of top, 20x22. 100 gallon capacity. 1 inch connection.

\$13.25

17-E-4800. Extra heavy four hole water heating laundry stove. Inside diameter of fire pot at top, 11½ inches. 9½ inch grate. Size of top, 22x24.

Price **\$17.75**

Unusual Values in High Grade Tank Heaters

For Homes and Garages

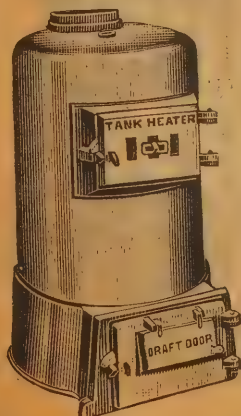
Cast Iron Tank Heater

\$28
and up

hot water heating heater you can have a practically unlimited supply of hot water. Quick heating. Easy to fire. Consumes but little fuel. Water in barrel is all around fire. Strongly made of best quality heavy iron castings. Large fire doors.

No.	Diam. of Grate	Diam. of Tappings	Capacity, Gals.	Price
17-E-130	12 in.	1½ in.	200	\$28.00
17-E-140	14 in.	1½ in.	300	45.00
17-E-170	17 in.	2 in.	500	65.00

Large Size Suitable as Garage Heater

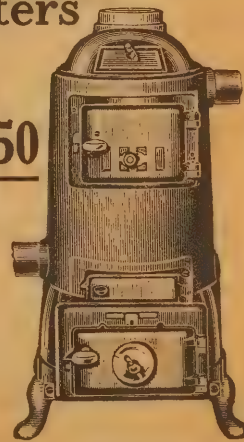


17-E-100. Cast Iron Heater.

An excellent heater where a steady flow of hot water is required. Water in barrel is all around fire which insures quick heating of the water and practically an unlimited supply. Inlet for water is on left side at bottom of water barrel. Outlet is on right side top of water barrel. Heater is substantially constructed and strongly reinforced. Large fire door at front insures convenient feeding. Nicked trimmings. Made of the very best gray iron castings. Diameter of grate, 10 inches. Diameter of fire pot at bottom, 14½ inches. Height of water barrel, 13 inches. Height from floor to top of smoke dome, 36 inches. Tank capacity, 200 gallons. Size of smoke pipe, 5 inches. Size of inlet and outlet, 1½ inches. Weight, 235 pounds.

\$31.50

Price **\$31.50**



Perfection Heating

For Hot Water
and Steam
Heating Plants!

TIME TESTED and tried under all conditions in every section of the country. Perfection Boilers are the sure choice of careful buyers everywhere. The most convincing endorsement for them is the thousands now in use and their wonderful record for more than 30 years. Today they present many new improvements in addition to the exclusive and original features that gained for them home heating boiler leadership.

Sectional View of Perfection Boilers

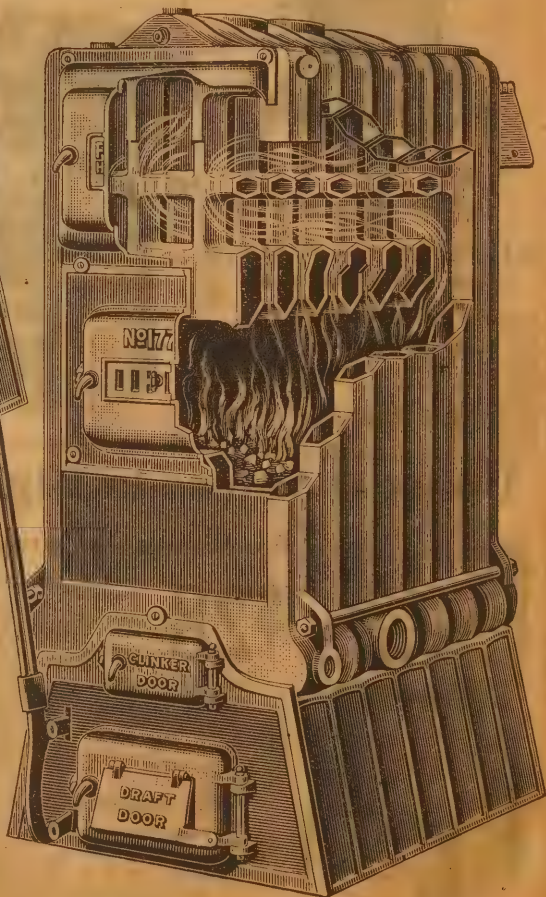
This Boiler Will Be Your Choice If Boiler Perfection Counts

Perfection square sectional, steam and hot water home heating boilers as they stand today are the result of constant experimenting, improving and tests for over 30 years.

Sections are smoothly and evenly cast in one piece from best gray iron carefully tested for strength and endurance.

Maximum heating surface and long smoke travel insures utmost heat from least fuel. Note: The entire firepot is surrounded by water.

The "V" shaped construction of castings—the straight self cleaning flue passages—the rocker type clinker cutting grate bars and the ability of these boilers to burn wood, coke, hard coal, soft coal or any fuel giving greatest efficiency at all times makes Perfection Boilers one of the most satisfactory on the market.



Square Sectional Boilers

The Pulse of Comfort in Your Home

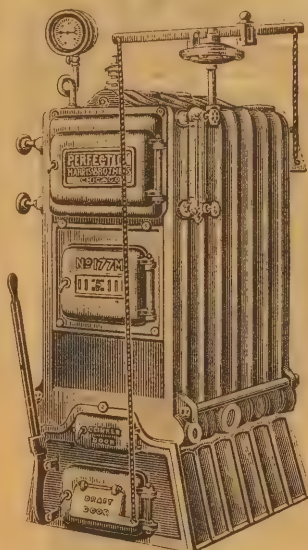
THE joy and healthful advantages of an efficient correctly installed modern heating system has made its selection the most important of all home comforts and improvements. Perfection Home Heating Systems—Perfection Boilers—Perfection Radiators—Perfection Furnaces and heating equipment of every description together with our Free Expert Engineering service has contributed in a large measure to the health and happiness of thousands of progressive home owners.

Perfection Boilers Are Perfect in Design and Construction

The pictures on the opposite page clearly show the splendid construction of Perfection square sectional boilers. The hot water and steam boilers are of the same design with the exception of the steam trimmings which are furnished with the steam boilers. Every possible unit of heat produced by the fuel is absorbed by the water before the burning gases and smoke reach the chimney. Note the extra deep firepot entirely surrounded by water heating passages which insures quick, steady heat.

Perfection Heating Systems Are Planned by Experts

Our experts have reduced the old-time complications of heating system planning and installation to a simple, easily completed job. Any handy man can do all the work by following our simple, easily understood instructions. No experience on your part necessary—just a little time and substantial exercise. We furnish all the tools you will need at a low rental charge. Always the same satisfactory results—a perfect efficient heating system insuring cold weather comfort and a big saving on the completed job.



Equipped for Steam

This Guarantee—

Assures Heating Plant Perfection and Cold Weather Comfort

Every Perfection Heating System, when installed according to our plans and instructions, is guaranteed to heat the rooms in which radiators are placed to a temperature of 70 degrees during all conditions of weather without undue forcing of the fire. It is agreed that if for any reason any piece or part of the material proves defective or if the heating system we have furnished is not capable of heating the rooms as stated above, we will hand you back the purchase price and any amount of freight charges paid by you to receive it.—HARRIS BROTHERS COMPANY.

Prices and Specifications of Perfection Heating Boilers

All Quotations Are Subject to Market Changes

Number	Size of Firepot	Size of Smoke Pipe	Foundation Inches	Tappings at Flow and Return	Height to Water Line (in Steam Boiler)	Direct Water Radiation	Direct Steam Radiation	Shipping Weight in Lbs.	Price on Hot Water Boilers	Price on Steam Boilers
17-E-64	13 1/2 x 12	7	23x24	2-2	41"	425	250	590	\$ 60.00	\$ 72.00
17-E-65	13 1/2 x 15	7	23x28	2-2	41	550	325	675	67.00	80.00
17-E-66	13 1/2 x 18	7	23x32	2-2	41	675	400	835	76.00	89.00
17-E-67	13 1/2 x 21	7	23x36	3-2	41	800	475	915	84.00	97.00
17-E-175	17x17	9	26x28	2-2 1/2	48	1000	600	941	102.00	115.00
17-E-176	17x21	9	26x33	2-2 1/2	48	1250	750	1123	117.00	130.00
17-E-177	17x25	9	26x38	3-2 1/2	48	1500	900	1305	134.00	148.00
17-E-178	17x30	9	26x43	3-2 1/2	48	1750	1050	1487	142.00	165.00

Above prices are all F. O. B. our factory in Western New York. We will quote Freight Prepaid prices on request.

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Perfection Round Sectional Heating Boilers

For Hot Water and Steam Heating Plants

Burn hard coal, soft coal, wood, coke or any fuel with utmost satisfaction.

PERFECTION sectional steam and hot water boilers show a decided improvement in "Round Type Boiler Construction." When designing Perfection Boilers, our engineers worked with one idea—to produce the most efficient and economically operated heating boiler possible. Following the designs of our engineers, these boilers are carefully made from the best grade of gray cast iron, smoothly finished; all sections and parts fitting perfectly.

We call your special attention to the construction of the fire pot. The cast iron pins on the side of the fire pot serve a double purpose. They hold the ashes and dead fire from the fire pot and because they project into the fire heat quickly and increase the circulation in your heating system.

Although Perfection Boilers embody all latest improvements and are sold under a guarantee of absolute satisfaction, you will find the prices on these boilers exceptionally low.

Most Efficient Round Design

This sectional view of the interior of the boiler shows the deep fire pot entirely surrounded by water, insuring quick circulation. All parts are carefully tested and must fit perfectly before boilers are shipped from our factory.

Important Features

Smooth, perfect fitting cast sections.
Deep fire pot and long fire travel gets the heat.
Greatest possible heating surface.
Rocker type clinker cutting grate bars.
Large size feed doors.
Deep, roomy ashpit.
Ease of operation and cleaning.
Rapid circulation.
Perfect fitting parts.

Shipments from factory in Eastern Michigan or Chicago.

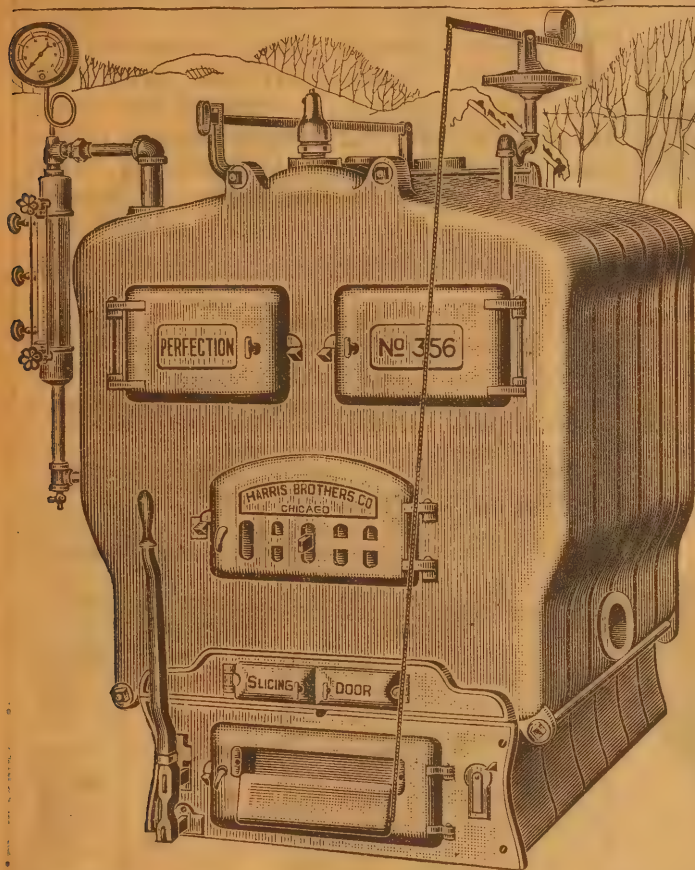
Hot Water Boiler

Prices of Perfection Round Sectional Steam and Hot Water Boilers

All Quotations Are Subject to Market Changes

Number	Dia. of Grate	Floor Space	Height Outlet Steam	Height Outlet Water	Water Line Steam	Number and Size Tappings	Size of Smoke Pipe	Weight	Rating Steam	Rating Hot Water	Price Steam	Price Hot Water
17-E-319	19 in.	26 in.	50 in.	47 in.	47 in.	2-2½ in.	7 in.	900	450	700	\$116.00	\$ 93.00
17-E-222	22 in.	30 in.	50 in.	47 in.	44 in.	2-2½ in.	9 in.	1000	525	875	122.00	95.00
17-E-322	22 in.	30 in.	56 in.	53 in.	50 in.	2-2½ in.	9 in.	1100	575	940	137.00	111.00
17-E-422	22 in.	30 in.	62 in.	59 in.	56 in.	2-2½ in.	9 in.	1200	600	975	150.00	122.00
17-E-225	25 in.	33 in.	52 in.	48 in.	46 in.	2-3 in.	9 in.	1300	675	1150	141.00	112.00
17-E-325	25 in.	33 in.	58 in.	54 in.	52 in.	2-3 in.	9 in.	1400	750	1240	160.00	132.00
17-E-228	28 in.	36 in.	53 in.	49 in.	47 in.	2-4 in.	10 in.	1550	900	1475	176.00	143.00
17-E-328	28 in.	36 in.	59 in.	55 in.	53 in.	2-4 in.	10 in.	1800	1000	1575	200.00	167.00
17-E-428	28 in.	36 in.	65 in.	61 in.	59 in.	2-4 in.	10 in.	2000	1025	1675	222.00	189.00
17-E-331	31 in.	39 in.	61 in.	56 in.	54 in.	2-4 in.	10 in.	2200	1200	1900	244.00	195.00

Perfection Square Sectional Heating Boilers



For Large Hot Water and Steam Heating Systems

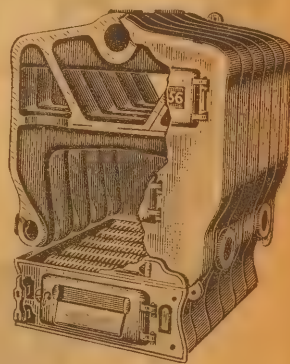
Perfection boilers are designed particularly for use in large heating work. They are conveniently installed; being sectional, they are built up together—no additional expense for elaborate brickwork. The ease with which Perfection boilers are operated with greatest efficiency—their ability to heat quickly, steadily and powerfully with utmost fuel economy—are advantages that you will appreciate.

Fast, Steady, Powerful Boilers

Made with improved push nipple type for joining the sections. This connection consists of heavy machine turned smooth tapered nipples made of cast iron and held together by heavy tie rods. These connections are so arranged that they are not exposed to the action of the fire and are unaffected by expansion or contraction of the sections; tight, permanent joints at all times. Their capacity can be increased or diminished by adding or taking from the sections.

Note especially the deep combustion chamber and the enormous amount of heating surface pressed to the action of the fire. This feature, combined with the long travel of gases, utilizes all of the effective heating units, giving efficiency with the most economical consumption of fuel. This also insures an immediate response to the action of the fire and quick heat to all parts of your building. All boiler ratings stated below are conservatively made according to accepted standards. Perfection boilers are perfectly adapted for soft coal burning. Perfection boilers are equipped with a large front and rear clean-out door, which gives you free and easy access to every part of the fire surface.

Prices and Specifications of Perfection Boilers F. O. B. Factory in Michigan
All Quotations are Subject to Market Changes



Sectional View

Number	Grate Surface	No. of Taps	Size of Smoke Pipe	Height to Outlet	Water Line	Total Length	Weight	Hot Water Rating	Steam Rating	Price Hot Water	Price Steam
17-E-255	22x30	2-4	10	53	45	54	2200	1300	950	\$185.00	\$215.00
17-E-256	22x37	2-4	10	53	45	61	2500	1650	1150	225.00	252.00
17-E-257	22x44	2-4	10	53	45	68	2800	2000	1350	260.00	290.00
17-E-258	22x51	2-4	10	53	45	75	3150	2625	1600	296.00	325.00
17-E-355	30x30	2-4	13 1/2	59	48	52	3000	2400	1450	280.00	308.00
17-E-356	30x37	2-4	13 1/2	59	48	59	3650	3000	1850	342.00	370.00
17-E-357	30x44	2-4	13 1/2	59	48	66	4200	3600	2275	390.00	420.00
17-E-358	30x51	3-4	13 1/2	59	48	73	4500	4200	2550	432.00	460.00
17-E-359	30x58	3-4	13 1/2	59	48	80	5100	4800	2900	485.00	515.00
17-E-456	38x42	2-5	16	67	55	63	4800	5000	3300	500.00	525.00
17-E-457	38x50	2-5	16	67	55	71	5600	5875	3500	555.00	590.00
17-E-458	38x58	3-5	16	67	55	79	6400	6800	4000	630.00	660.00
17-E-459	38x66	3-5	16	67	55	87	7300	7800	4500	720.00	750.00
17-E-4510	38x74	3-5	16	67	55	95	8000	8300	5000	800.00	825.00

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Perfection Plain Steam and Hot Water Radiators

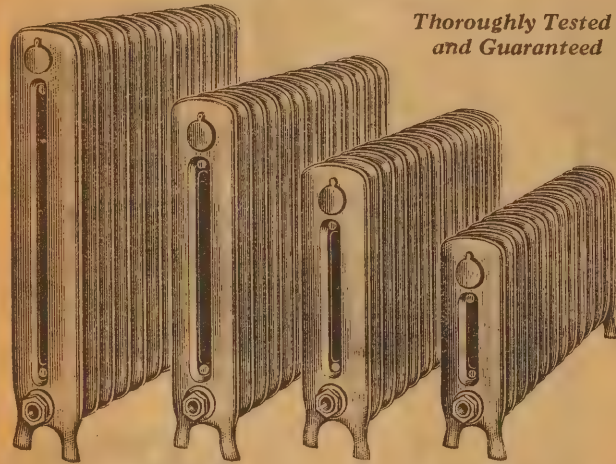


Perfection 3 Column Radiators

THESE Colonial design radiators are smoothly made from best gray iron. Each section is expertly cast in one piece. All surfaces must be perfect because of the plain design without old-fashioned ornamentation which covered imperfect careless castings. Easy to finish with gold or aluminum paint—easy to keep clean and sanitary.

Each section is tested separately and tested again when the complete radiator is assembled before shipment. Guaranteed perfect in every respect.

Prices below are for shipment direct from our warehouse in Western New York. We carry a large stock of radiators here at Chicago for the convenience of our customers. When shipments are made from Chicago, add 3c per ft. to cover freight charges.



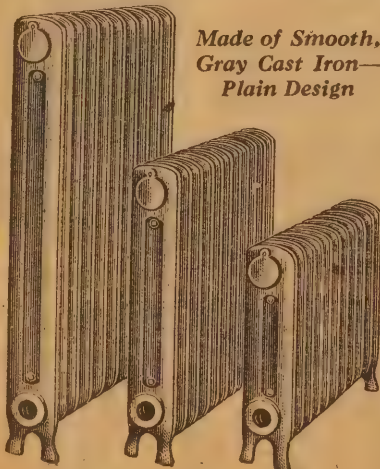
Thoroughly Tested and Guaranteed

Perfection 2 Column Radiators

ONE COLUMN RADIATORS 17-E-5300	PRICES	
	Hot Water	Steam
38 inch high, 3 sq. ft. per section—per ft.	\$0.40	\$0.39
26 inch high, 2 sq. ft. per section—per ft.	.49	.48
20 inch high, 1½ sq. ft. per section—per ft.	.56	.55
TWO COLUMN RADIATORS 17-E-5305		
	Hot Water	Steam
38 inch high, 4 sq. ft. per section—per ft.	\$0.38	\$0.37
32 inch high, 3¼ sq. ft. per section—per ft.	.41	.39
26 inch high, 2½ sq. ft. per section—per ft.	.46	.44
20 inch high, 2 sq. ft. per section—per ft.	.52	.50
THREE COLUMN RADIATORS 17-E-5310		
	Hot Water	Steam
38 inch high, 5 sq. ft. per section—per ft.	\$0.37	\$0.36
32 inch high, 4½ sq. ft. per section—per ft.	.40	.39
26 inch high, 3¾ sq. ft. per section—per ft.	.44	.43
22 inch high, 3 sq. ft. per section—per ft.	.48	.47
18 inch high, 2¼ sq. ft. per section—per ft.	.53	.52
FIVE COLUMN RADIATORS 17-E-5315		
	Hot Water	Steam
22 inch high, 6 sq. ft. per section—per ft.	\$0.48	\$0.47
18 inch high, 5 sq. ft. per section—per ft.	.53	.52
14 inch high, 4 sq. ft. per section—per ft.	.58	.57

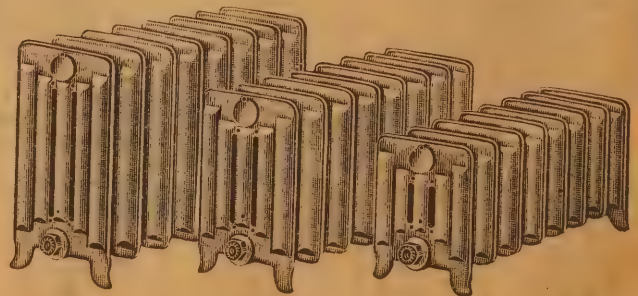
Made with standard tapping as follows:

Radiators containing 26 ft. or under.....	¾ in.
Radiators containing more than 26 ft. (not exceeding 50 ft.).....	1 in.
Radiators above 50 ft. but not exceeding 90 ft.....	1¼ in.
Radiators containing above 90 feet.....	1½ in.



Made of Smooth, Gray Cast Iron—Plain Design

Perfection One Column Radiators



Perfection 5 Column Low Radiators

All Quotations Are Subject to Market Changes

Heating Plant Accessories

Radiator Valves and Union Elbow



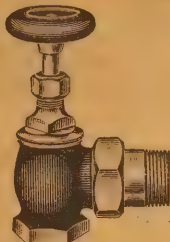
Floor Flange
5-E-202. Floor Flange.

Size, Inches	Price, Each
1/2 inch.....	9c
3/4 inch.....	11c
1 inch.....	13c
1 1/4 inch.....	15c
2 inch.....	20c



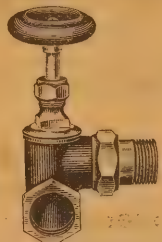
Wood Wheel Radiator Air-Valve
5-E-183. Nickel plated Compression Radiator Air Valves with wood wheels.

Size 1/2 inch.....	Price
1/2 inch.....	15c



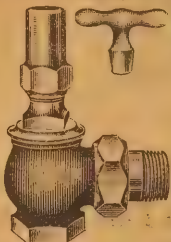
5-E-178. Jenkins' Disc Angle Radiator Valve with Union, nickel plated all over.

Size	Price
3/4 inch.....	\$1.35
1 inch.....	1.60
1 1/4 inch.....	2.00
1 1/2 inch.....	2.60
2 inch.....	4.25



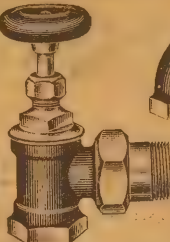
5-E-174. Jenkins' Disc corner radiator valves with union.

Size	Price
3/4 inch.....	\$1.90
1 inch.....	2.25
1 1/4 inch.....	3.00
1 1/2 inch.....	3.30
2 inch.....	6.15



5-E-177. Lock Shield Jenkins' Disc with union, nickel plated all over.

Size	Price
3/4 inch.....	\$1.70
1 inch.....	2.10
1 1/4 inch.....	2.85
1 1/2 inch.....	3.65



5-E-179. Quick Opening Hot Water Radiator Valve with Union, nickel plated all over.

Size	Price
3/4 inch.....	\$1.05
1 inch.....	1.35
1 1/4 inch.....	1.60
1 1/2 inch.....	2.00
2 inch.....	3.25



5-E-180. Hot Water Union Elbows, nickel plated all over.

Size, Inches	Price, Each
3/4 in.....	\$0.60
1 in.....	.70
1 1/4 in.....	.95
1 1/2 in.....	1.15
2 in.....	2.00



Ceiling Flange
5-E-203. Ceiling Flange.

Size, Inches	Price, Each
1/2 inch.....	9c
3/4 inch.....	11c
1 inch.....	13c
1 1/4 inch.....	15c
2 inch.....	20c

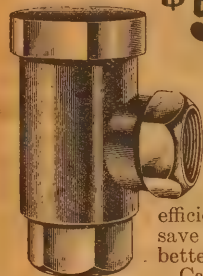


Loose Key Radiator Air-Valve
5-E-181. Nickel plated loose key compression radiator air valves.

Size, 1/2 inch.	Price.....
1/2 inch.....	15c

Hot Water Heat Governor

\$5.50 Efficient, Economical, Easily Attached

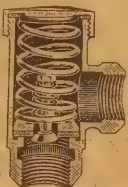


This device keeps a constant pressure of about 10 pounds on the water of the system and permits you to heat the water to a very high temperature. You will get much higher heating efficiency on the plant, save fuel and will get better circulation.

Can be attached in a few minutes to any Hot Water Heating system. Made of solid bronze throughout—will not rust or get out of order, will last a lifetime.

5-E-4570. Heat governor (weight, 5 pounds).

Price..... **\$5.50**



Sectional View showing the splendid construction of heat governor.



Automatic Air Valve for Steam

5-E-184.

Nickel plated automatic radiator air valves for steam. Size of connection pipe, thread, 1/2 inch.

Each..... 40c

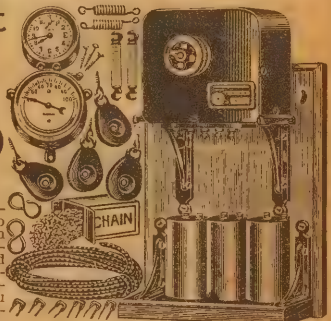
Thermostat Heat Regulator

Here is one of the most wonderful devices ever made to do away with heating plant drudgery. An automatic janitor, tireless, exact, never too lazy to get up. Operates with the utmost simplicity. Thermostat and clock are mounted in your living room, or bedroom, the motor in the basement. Before retiring, you set the thermostat for the temperature you wish maintained during the night, and the alarm clock at about two hours before you intend to arise.

That's all. At the proper time the alarm goes off, pushing the thermostat up to 70 degrees, and when you get up, your home is nice and warm. Full instructions for installation furnished with each outfit.

Outfit includes thermostat, alarm clock, high grade motor with pulley, 25 feet insulated electric cable, 2 insulated wires for connecting motor to batteries, 2 dry cell connectors, 1 dry cell platform, 4 pulleys for chain, 1 chain for operating dampers, 6 insulated cable staples and thermostat screws. (Dry cells not included.) Shipping weight, complete, about 30 pounds.

5-E-6500. Special price, complete, without dry cells..... **\$40.00**



Water Gauge Set

\$1.75 **5-E-9501.** Complete water gauge set. Made with brass body, iron wheels and two guards to protect glass tube. Fitted with drain cock at bottom. Polished brass finish, 1/2 inch thread Glass, size 3/4x12 inch.

Price, complete..... **\$1.75**

Steam Gauge



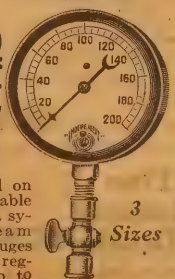
\$2.10 UP

5-E-9511 Japanned Iron Case

brass ring, complete with cock. They should not be used on traction or portable rigs. Always use a syphon with all steam gauges. These gauges are guaranteed to register accurately up to 200 pounds. Each gauge is packed in a wooden box. Size dials, inches..... 3 1/2 4 1/2 5

Price, each..... **\$2.10 \$2.25 \$2.65**

Low pressure steam gauge registering up to 30 pounds, 3 1/2 inch Dial..... **\$2.10**



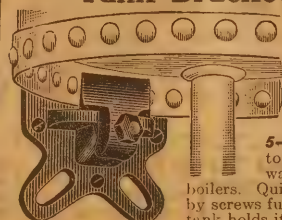
3 Sizes

Galvanized Steel Expansion Tanks

These are used in connection with hot water heating plants. Water gauge not included at prices quoted.

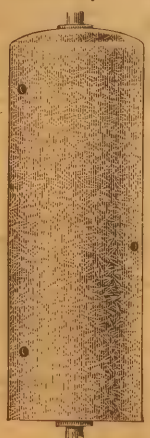
	Cap. Gals.	Size Ins.	Sq. ft. of Radiation	Price Each
5-E-190	8	10x20	300 to 400	\$ 8.00
5-E-191	10	12x20	400 to 500	8.20
5-E-193	15	12x30	500 to 600	9.20
5-E-195	20	14x30	600 to 700	12.80
5-E-197	26	16x30	700 to 900	14.35
5-E-198	32	16x36	1000 to 1300	15.35
5-E-199	42	16x48	1300 & up.....	16.85
5-E-201	Expansion tank gauge set			1.05

Improved Expansion Tank Bracket



5-E-280. An ingenious bracket to hold expansion tanks in hot water heating systems or range boilers. Quickly attached to wall studding by screws furnished. Grip clamp on flange tank holds it securely in place.

Price, each..... **\$1.35**



Hot Water Thermometers

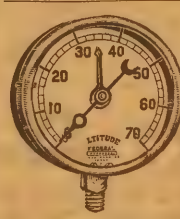
Used in connection with hot water heating plants, registering up to 220 degrees. Guaranteed accurate. Each thermometer is carefully packed in a separate wooden box.

5-E-187. Straight Thermometers as shown in illustration.

Price, each..... **\$1.05**

5-E-188. Angle Thermometers for use on risers or circulating pipes.

Price, each..... **\$1.20**



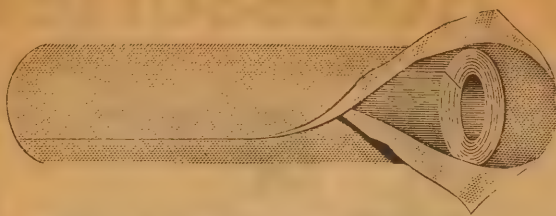
New Pattern

\$2.00

Altitude Gauges

5-E-189. Altitude Gauges are used for indicating the height of water in a hot water heating system. The red hand is movable. When you determine the height of water to just fill the system correctly, set the red hand at that point and then the indicating hand should be right on top of it. Each..... **\$2.00**

Pipe Covering and Heating Accessories



Moulded Asbestos Pipe Covering

21-E-204. This form of covering is offered as a durable and effective non-conducting covering. It is absolutely fireproof and is made in sections in the various sizes, 3 feet long, which are finished with canvas jackets, and provided with sufficient metal bands to securely fasten it to the pipe. Thickness of covering, 1 inch.

For Pipe, Size	Price, per 3 ft. Length	For Pipe, Size	Price, per 3 ft. Length
1/2	\$0.33	2	\$0.55
3/4	.37	2 1/2	.60
1	.41	3	.65
1 1/4	.45	3 1/2	.72
1 1/2	.50	4	.90

Joint Cement



5-E-9535.

For use in steam, hot water or other pipe connections. Makes joints air tight; does not harden; easy to put in pipe connections without breaking the fitting.

2-lb. can **35c**



5-E-1210.

Liquid Chemical: guaranteed to stop ordinary leaks and cracks in steam and hot water heating boilers by drawing water down below the top of the boiler, mixing liquid and keeping a hot fire for 48 hours. For boilers up to 1000 ft. 1 qt. is required. Boilers up to 2000 ft. 2 qts. 3000 to 4000 ft. 3 qts. Weight 3 lbs.

Per qt. **\$2.50**

Red Lead



This is the regular plumbers' red lead for making joints water, gas or steam tight.

5-E-7850. Comes in one-pound cans. Price **18c** Per can.

Wool Felt Pipe Covering

21-E-205. Especially recommended for hot water heating plants. This covering is made of soft corrugated wool felt with interlining of two layers of asbestos felt, and finished with a canvas jacket.

For Pipe, Size	Price, per 3 ft. Length	For Pipe, Size	Price, per 3 ft. Length
1/2	\$0.25	2 1/2	\$0.44
3/4	.29	3	.49
1 1/4	.33	3 1/2	.55
1 1/2	.37	4	.60
2	.40		

Asbestos Cement

100 lb. Bag **\$1.80**



21-E-207. A dry cement for covering heating boilers, iron or any other surface to prevent loss of asbestos fibre and other materials. Increases efficiency of boiler.

As asbestos Moulded covering for fittings are only made the use of Asbestos cement in their place. Figure 1 1/2 lbs. of cement to a fitting up to 2 inches.

Price, per 100-lb. bag **\$1.80**

Radiator Bronze



5-E-7590.

Gold Bronze Powder.

1/2 lb. **\$0.55**

1 lb. **1.00**



Radiator Aluminum



5-E-7595.

Aluminum Bronze Powder.

1/2 lb. **\$0.65**

1 lb. **1.20**

5-E-7585. Radiator bronze mixing liquid and brush.

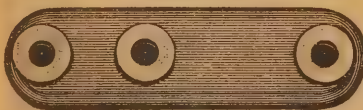
Each 1 quart cans. **\$0.35**

1/2 gallon can. **.65**

1 gallon can. **1.15**

Bronzing brush. **.40**

Domestic Water Heater



17-E-984. An efficient water heater especially made to be used in any standard furnace. Made of finest smooth gray cast iron. Convenient clean-out plug enables you to remove sediment. Two openings for 1 inch pipe. Easily installed by removing parts covering these openings. Efficiently used in connection with any 40 gallon range boiler.

Price, each **\$2.25**



Pipe Hangers

Can be cut to all desired lengths by disconnecting two lower screws. The most practical pipe hanger on the market. Easy to adjust.

21-E-185. Adjustable length, 2 to 10 ins.

Pipe Inches	Each	Pipe Inches	Each
1	\$0.08	2	\$0.11
1 1/4	.09	2 1/2	.12
1 1/2	.10	3	.15

Galvanized Smoke Pipe



Per Foot **30c**

17-E-7530.

Our regular galvanized

smoke pipe furnished with all our Heating Plants, made of 26-gauge heavy galvanized sheet iron, comes in 3 foot lengths. This stack is shipped knocked down in the flat sheets all flanged and seamed. Can be assembled in a few minutes. Prices as follows:

Inch	6	7	8	9	10	12
Per foot.	30c	31c	32c	33c	36c	39c

Dampers



17-E-7535.

6 inch.	\$0.45
7 inch.	.47
8 inch.	.63
9 inch.	.78
10 inch.	.95
12 inch.	1.10

Smoke Pipe Elbows

45c

17-E-7540.

26-gauge galvanized

Elbows to fit above

smoke pipe. Prices as follows:

Inch.	6	7	8	9	10	12
Each.	40c	46c	54c	62c	77c	\$1.08

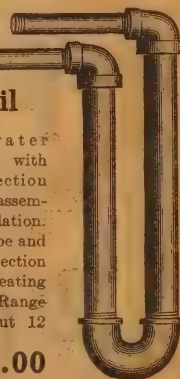


Perforated Strap Iron



21-E-1186. For large pipe or long drops we recommend our 1/2 perforated strap iron. 5 ft. and 10 ft. lengths. Price, per foot. **\$0.05 1/2**

Iron Pipe Water Heating Coil



17-E-1204. Hot water Heating Coil for use with Harris Square Perfection Boilers. Completely assembled, ready for installation. Made from 1 1/4 inch pipe and fittings. Outside connection 3/4 inch. Suitable for heating 30 or 40 Galvanized Range Boilers. Weight, about 12 pounds.

Price, each **\$2.00**

Flue Cleanout Brush



17-E-1209. Flue brush for cleaning flues. Made of spring steel with handle threaded for 1/4 inch pipe. Extension handle can easily be made by coupling to 1/4 inch pipe. Shipping weight, 1 lb. Price **\$1.10**

Brass Valves—Cocks—Iron Body Valves

STANDARD BRASS STEAM COCKS



4-E-4919.

Size	Each
1/4 in.	\$0.39
3/8 in.	.44
1/2 in.	.50
3/4 in.	.55
1 in.	.60
1 1/4 in.	1.15
1 1/2 in.	1.38
2 in.	2.30
2 1/2 in.	3.25

STANDARD BRASS GAS SERVICE COCKS



5-E-4921.

Size	Each
1/4 in.	\$0.44
3/8 in.	.50
1/2 in.	.56
3/4 in.	.62
1 in.	.68
1 1/4 in.	1.49
1 1/2 in.	2.04
2 in.	3.60

COMPRES- SION GAUGE COCKS



6-E-4915.

Size	Each
1/4 in.	\$0.77
3/8 in.	.87
1/2 in.	1.02

THREE-WAY BRASS STEAM COCKS



5-E-4917.

Size	Each
1/4 in.	\$2.10
3/8 in.	2.77
1/2 in.	3.46
3/4 in.	4.28
1 in.	5.20
1 1/4 in.	9.68



Bibb Air Cock

5-E-4913.

Size	Each
1/4 in.	\$0.40
3/8 in.	.50
1/2 in.	.55
3/4 in.	.63



Pop Safety Valves

With phosphor bronze seats. For boilers of all kinds. Be sure to state pressure the valve is to be set at.

5-E-4931.

Size, Horse Power.	Each up to 15 lb. Pressure	Each 15-100 lb. Pressure
1/4 in.	8	\$2.91
1/2 in.	12	3.40
3/4 in.	18	3.85
1 in.	20	4.12
1 1/4 in.	30	6.55
1 1/2 in.		14.57

Lever Safety Valves

5-E-4933.

Size	Each
1/2 in.	\$2.03
3/4 in.	2.42
1 in.	3.08
1 1/4 in.	4.50
1 1/2 in.	5.35
2 in.	7.45

STANDARD BRASS BALL AND LEVER SAFETY VALVES



STANDARD HORIZONTAL CHECK VALVES



5-E-4923.

Size	Each
1/4 in.	\$0.33
3/8 in.	.35
1/2 in.	.36
3/4 in.	.44
1 in.	.58
1 1/4 in.	.79
1 1/2 in.	1.10
2 in.	2.36

JENKINS' DISC BRASS CHECK VALVES



5-E-4925.

Size	Each
1/4 in.	\$0.53
3/8 in.	.55
1/2 in.	.56
3/4 in.	.68
1 in.	1.35
1 1/4 in.	1.87
1 1/2 in.	2.50
2 in.	3.50

STANDARD BRASS GLOBE VALVES



5-E-4901.

Size	Each
1/4 in.	\$0.33
3/8 in.	.35
1/2 in.	.37
3/4 in.	.50
1 in.	.66
1 1/4 in.	1.72
1 1/2 in.	2.52
2 in.	2.30

STANDARD GATE VALVES



5-E-4909.

Size	Each
1/4 in.	\$0.83
3/8 in.	.85
1/2 in.	.94
3/4 in.	1.15
1 in.	1.62
1 1/4 in.	2.15
1 1/2 in.	2.86
2 in.	4.18

JENKINS' DISC BRASS GLOBE VALVES



5-E-4905.

Size	Each
1/4 in.	\$0.53
3/8 in.	.60
1/2 in.	.83
3/4 in.	1.15
1 in.	1.48
1 1/4 in.	2.09
1 1/2 in.	2.86
2 in.	4.51

STANDARD BRASS ANGLE VALVES



5-E-4903.

Size	Each
1/4 in.	\$0.33
3/8 in.	.35
1/2 in.	.37
3/4 in.	.50
1 in.	.66
1 1/4 in.	1.72
1 1/2 in.	2.52
2 in.	2.30

JENKINS' DISC BRASS ANGLE VALVES



5-E-4907.

Size	Each
1/4 in.	\$0.53
3/8 in.	.60
1/2 in.	.83
3/4 in.	1.15
1 in.	1.50
1 1/4 in.	2.09
1 1/2 in.	2.86
2 in.	4.50

STANDARD SWING CHECK VALVES



5-E-4927.

Size	Each
1/4 in.	\$1.00
3/8 in.	1.10
1/2 in.	1.36
3/4 in.	1.81
1 in.	2.35
1 1/4 in.	3.30

STANDARD VERTICAL CHECK VALVES



5-E-4929.

Size	Each
1/4 in.	\$0.59
3/8 in.	.64
1/2 in.	.83
3/4 in.	1.05
1 in.	1.43
1 1/4 in.	2.08
1 1/2 in.	2.89
2 in.	4.37

Brass Air Cocks



5-E-4911.

Size	Each
1/4 in.	\$0.24
3/8 in.	.33
1/2 in.	.35
3/4 in.	.37



Check Valves IRON BODY HORIZONTAL CHECK VALVES

Size	Each	Size	Each
2 1/2 in.	\$6.00	4 in.	\$13.00
3 in.	8.20	5 in.	20.30
3 1/2 in.	11.30	6 in.	27.50

Iron Body Valves

Standard weight, well proportioned; suitable for working pressure up to 100 lbs. For steam or water. Fully guaranteed.

Check Valves IRON BODY HORIZONTAL CHECK VALVES

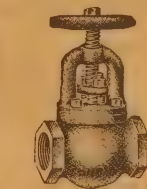
Size	Each	Size	Each
3 in.	\$10.50	5 in.	\$24.00
4 in.	16.50	6 in.	32.25



IRON BODY ANGLE VALVES

21-E-104. Brass mounted with yoke flange ends.

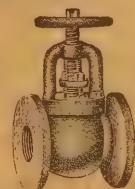
Size	Each
2 1/2 in.	\$9.60
3 in.	13.50
3 1/2 in.	16.65
4 in.	20.25
5 in.	27.90
6 in.	37.80



IRON BODY GLOBE VALVES AND ANGLES

21-E-101. Brass mounted with yoke, screw ends. 21-E-105. Angle Valve.

Size	Each
2 1/2 in.	\$8.10
3 in.	11.25
3 1/2 in.	13.70
4 in.	17.10
5 in.	24.30
6 in.	33.75



IRON BODY GLOBE VALVES

21-E-103. Brass mounted, with yoke, flange ends.

Size	Each
2 1/2 in.	\$9.60
3 in.	13.50
3 1/2 in.	16.65
4 in.	20.35
5 in.	29.35
6 in.	37.80



IRON BODY GLOBE VALVES

21-E-97. Brass mounted, plain screw ends.

Size	Each
2 in.	\$4.50
2 1/2 in.	6.50
3 in.	9.00



IRON BODY ANGLE VALVES

21-E-99. Brass mounted, plain screw ends.

Size	Each
2 in.	\$4.50
2 1/2 in.	6.50
3 in.	9.00



STRAIGHT WAY GATE VALVES

21-E-109. Iron body, brass trimmings, stationary stem, screw ends.

Size	Each
2 1/2 in.	\$9.55
3 in.	11.60
3 1/2 in.	14.10
4 in.	15.90
5 in.	23.80
6 in.	27.45



STRAIGHT WAY GATE VALVES

21-E-110. Iron body, brass trimmings, stationary stem, flange ends.

Size	Each
2 1/2 in.	\$11.00
3 in.	13.50
3 1/2 in.	16.00
4 in.	18.20
5 in.	25.75
6 in.	29.95

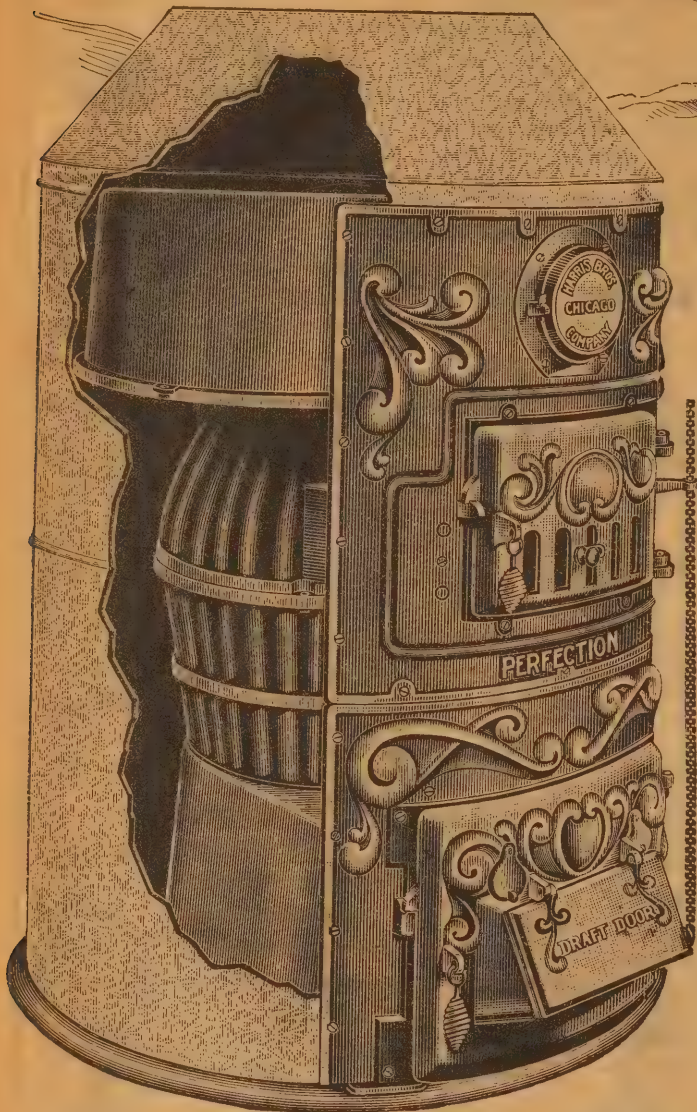
LET US KNOW YOUR NEEDS

Used Valves and Fittings!

In connection with our big purchases of complete plants and factories, we receive a steady supply of valves and fittings of every kind. Send us a list of your requirements for low, quick sale prices.

WRITE FOR PRICES NOW

Perfection Warm Air



Sectional view showing the deep, heavily corrugated firepot, large radiator and roomy ashpit

For Warm Air Pipe Heating Systems

HARRIS Warm Air Heating Systems offer many advantages to the careful buyer. They are made of all new high grade material in a large up-to-date, well equipped foundry. Every piece and part is carefully constructed by skilled workmen, carefully assembled and inspected before shipment. All furnaces are entirely set up when completed, the holes are drilled to match, the doors tight, and all parts must fit perfectly. Read the following specifications; you will then clearly see why you should buy a Harris Warm Air Heating System, with its many advantages, and no other:

Harris Furnaces are furnished with cast iron reversible radiators. The castings are extra heavy. The upper and lower sections are securely bolted together with asbestos between the joints, making an absolutely air tight construction. The fire and gases must pass completely around the circumference of the radiator, thus giving off all of the heat before passing up the chimney. The extra large clean-out openings permit thorough and easy cleaning of radiators without removing smoke pipe. All the radiators are constructed so that any fuel can be burnt without clogging. The smoke collars and clean-out collars are cast and extend through the casing.

The Feed Section is extra heavy cast iron—designed to follow the cone shape of the fire. Built with an unusual amount of heating surface which guarantees maximum combustion.

The Fire Pot is in two parts, the sections being set together with deep grooves, thus allowing for expansion and contraction, which reduces the possibility of cracking to the minimum. We supply with each furnace sufficient cement to make all joints gas tight. The heavy corrugation of the fire pot gives greatest heating surface possible. The heating capacity of our furnaces is greatly increased by the extra depth of the fire pot.

Accessories With each furnace we include, without extra charge, check draft, asbestos cement, water pan, poker, shaker handle, draft and regulating dial plate, chain and pulleys.

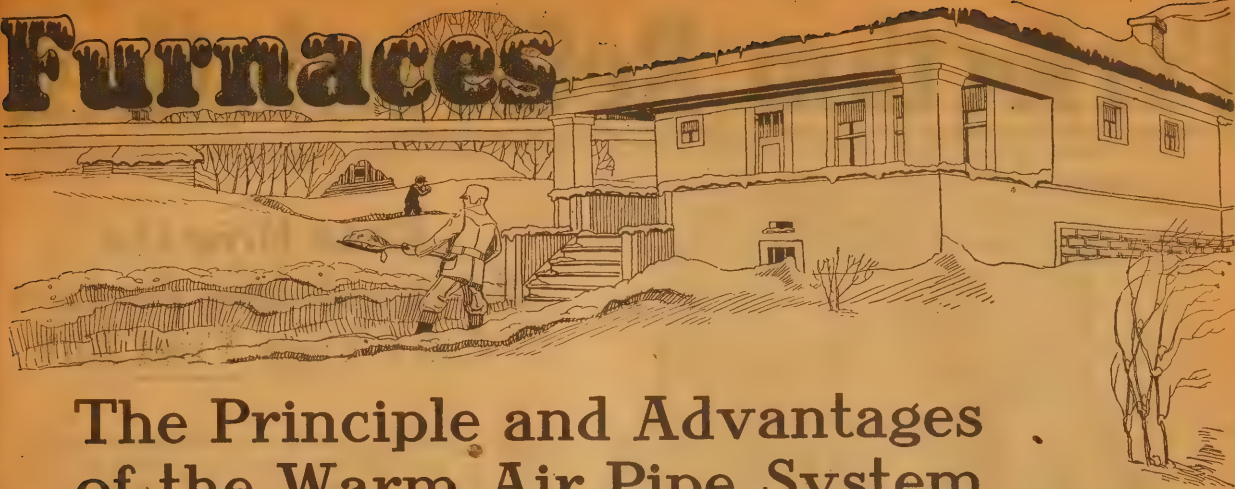
The Ash Pit is large and roomy, allowing for an accumulation of ashes without danger of burning the grate bars. The grate is extra heavily constructed, bars are triangular type and clinkers can be quickly removed. Any of the bars can be removed or replaced in a minute's time—no tools necessary.

Ashpit or Draft Door is of butterfly type and can be regulated by means of damper chains from the living rooms. All furnaces are tapped for hot water coil.

The Casing Construction on Harris Furnaces is such as to conserve the greatest amount of heat possible. The outer casing is bright galvanized steel—26 gauge, lined with asbestos and corrugated tin which is riveted to the upper casing and which gives proper insulation. This method of construction forces all of the heat through the supply pipes to the living rooms and thus effects a large saving in fuel.

Prices and Specifications of Perfection Furnaces on Opposite Page

Furnaces



The Principle and Advantages of the Warm Air Pipe System

QUICK heat with an abundance of clean, moistened, healthful warm air circulating through all the rooms in your home, are some of the many desirable features which have made the Warm Air Heating System so popular. Aside from these advantages, an efficient, highly satisfactory Warm Air Heating System can be installed in less time, with less work and for considerably less money than a steam or hot water plant.

Warm Air Heating Systems are used everywhere for heating moderate size homes, stores, churches and schools. Where the furnace can be centrally located, a warm air plant always gives excellent results when installed according to the simple plans and easily understood instructions furnished free by our engineers.

In climates where there are quick changes in temperature only a low fire need be kept up on the mild days. Then, when there is a sudden drop in temperature, by simply opening the drafts, you can get almost instantaneous heat in all your rooms. The fresh air coming into the heating chamber through the cold air intakes and return register passes over the water pan, where it is cleaned and moistened. It is then heated in the upper part of the furnace, rising quickly through the pipes to the rooms above. As the air cools, it is led back to the furnace through the return air register, remoistened, reheated and passed on to the rooms again. This insures even steady heat and good ventilation.

Our Expert Engineers Are Waiting to Help You

Simply send us a rough sketch of the layout of rooms in your house, indicating the size of all rooms. Our estimate will relieve you of all worry and responsibility. You can rest assured the plant we figure for you, including all the material for its installation, will heat your home satisfactorily, in all weather, with a substantial saving in fuel.



Specifications and Prices of Perfection Pipe Furnaces

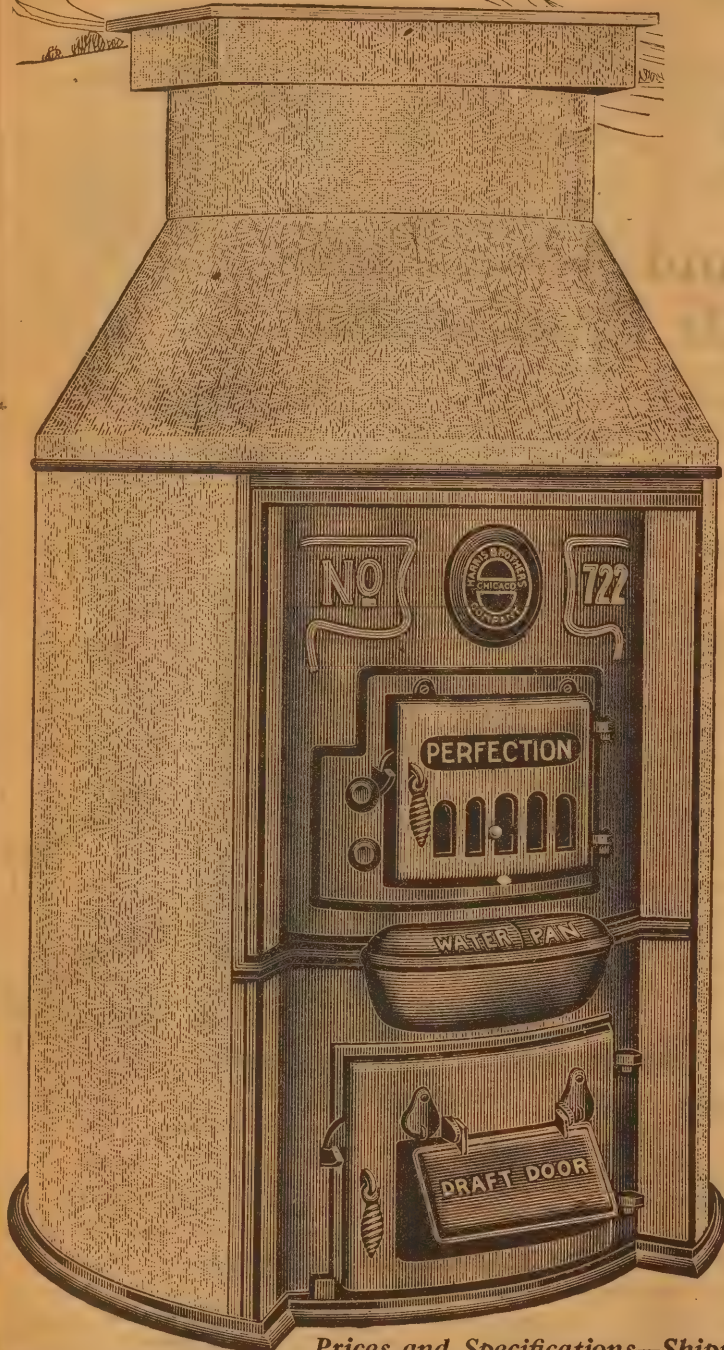
Shipped from Factory in Central Illinois

Furnace Number	17-E-20	17-E-22	17-E-24	17-E-26	17-E-28	17-E-30
Heating Capacity, in cu. ft.	10,000	15,000	20,000	30,000	40,000	50,000
Diam. Fire Pot, in inches	20	22	24	26	28	30
Diam. Casing, in inches	42	46	50	54	58	62
Height Casing, in inches	45	47	49	53	56	59
Height of Radiator, in inches	15	15	15	15	15	15
Size of Feed Door, in inches	11x13	11x13	11x13	11x13	11x13	11x13
Diameter Smoke Pipe, in inches	8	8	8	9	10	10
Shipping Weight, in lbs.	700	900	1,100	1,300	1,600	1,800
Price with Cast Iron Radiator	\$63.00	\$77.00	\$93.00	\$110.00	\$135.00	\$170.00

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Perfection ReCirculating

Read How the Re-circulating Feature Cuts Your Fuel Bill!



Good circulation is absolutely necessary to heat all the rooms in your home with a Warm Air Pipeless Furnace. To supply heat through one register in one room with no provisions to keep the air circulating is not sufficient. The air rising from the furnace will retain its velocity while it is hot, but as it cools, begins to fall and will return to the cold air intake on the outer part of the floor register.

The Harris Re-circulating Pipeless System with its cold air intake returning to the furnace heats all of the rooms quickly and evenly in the coldest weather and in re-circulating the air from the rooms less heat is required and less fuel needed to retain the steady even heat. This continuous circulation of air in all rooms mixing with the fresh air which comes into any house through doors and windows is a healthful advantage that should not be overlooked.

A particular advantage of Harris Re-circulating Furnaces is the unusually large cold air return. The outer casing being placed 8 inches from the inner casing allows a quick, active return of the cold air from the rooms above which increases circulation and gives a constant flow of warm air through your living rooms.

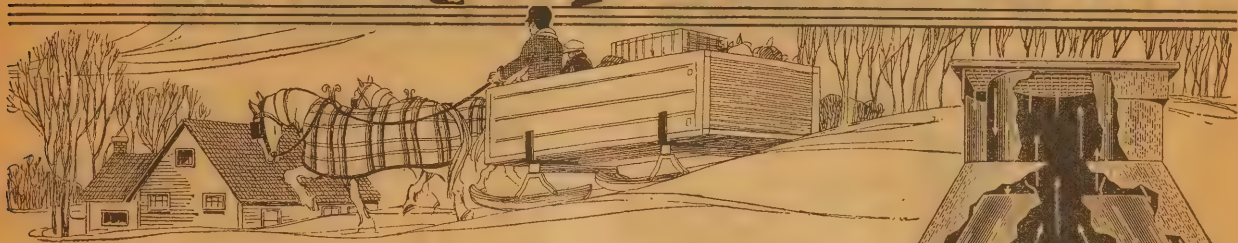
Built for Long Service!

"Harris" Re-circulating Double Casing Pipeless Furnaces are built to give lifelong service. Made entirely of cast-iron with double casing made of heavy galvanized iron. The fire pot is made in two sections with deep corrugations. The triangular grate and all parts coming in direct contact with the fire are made of finest heavy cast-iron. The ash pit is large and deep to prevent damage to the grate from accumulated ashes. Extra large door to ash pit and extra large fuel door. Large water pan. Cast-iron parts are smooth and nicely finished. The galvanized casing is securely fitted and perfectly joined.

Prices and Specifications—Shipment from Factory in Central Illinois

Number	Dia. Inner Casing	Dia. Outer Casing	Register Size	Dia. Hot Air Pipe	Heat Capacity Cubic Feet	Dia. Fire Pot	Size Feed Door	Dia. Smoke Pipe	Shipping Weight	Price
17-E-718	30 in.	38 in.	24x27	18 in.	10,000	18 in.	11x13	7 in.	900 lbs.	\$ 70.00
17-E-720	34 in.	42 in.	30x30	22 in.	13,000	20 in.	11x13	8 in.	1,000 lbs.	84.00
17-E-722	38 in.	46 in.	34x34	26 in.	18,000	22 in.	11x13	8 in.	1,200 lbs.	100.00
17-E-724	42 in.	50 in.	36x36	28 in.	25,000	24 in.	11x13	8 in.	1,400 lbs.	120.00
17-E-726	46 in.	54 in.	40x40	30 in.	35,000	28 in.	11x13	9 in.	1,700 lbs.	142.00
17-E-728	50 in.	58 in.	44x44	32 in.	45,000	28 in.	11x13	10 in.	2,000 lbs.	200.00
17-E-730	54 in.	62 in.	44x48	36 in.	55,000	30 in.	11x13	10 in.	2,300 lbs.	225.00

Double Casing Pipeless Furnace



Every Nook and Corner of All Rooms Flooded with Clean Warm Air

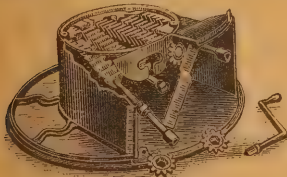
Within a few moments after the fire is started, an abundance of warm air, cleaned and moistened from the water pan, rises quickly through one large register. This action naturally causes the cold air at the floor to fall, in a steady flow, toward the cold air intakes, where it is drawn in, cleaned, moistened, heated and passed on to the living rooms. In this way a continuous circulation is automatically started through all the rooms in your home—reaching to the farthest corners. All rooms adjoining the room in which the register is placed are evenly heated within a short time by simply opening the doors leading to them.

Large Cast Radiator



A special feature of "Harris" re-circulating double casing pipeless furnaces will be found in the extra large all-cast radiators. The cross-section view above shows the fire traveling. Gas and smoke must pass around the entire circumference and give up most of their heat before reaching the chimney.

Best Triangular Grate



Here is the improved triangular grate with which these splendid furnaces are equipped. Any of the grate bars can be removed or replaced without disturbing the rest of the grate in a moment's time. There are no bolts or cotter pins to take out—no special tools necessary. The most practical and convenient grate devised.

Improvements!

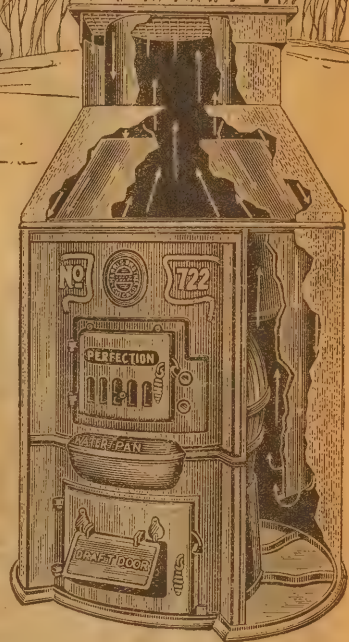
The "Harris" pipeless furnace has been carefully designed to embody all newest and best improvements, and as it is offered to you today it overcomes all the objectionable difficulties found in other makes. These furnaces present in themselves a complete heating system. They are ideal for the home, store, church, school and hall or for any building where the furnace can be placed in the basement near the center of the building. This furnace is designed to heat your entire building to an even temperature, distributing clean, warm air to every corner.

One Register System

The heated air rises through the center part of the register and circulates through doorways to all rooms, continuing to rise and travel while heated, then falling and returning to the furnace. In this way an almost perfect circulation is continually maintained.

Efficient—Economical

These splendid pipeless furnaces have been successfully installed and are giving thorough satisfaction in every part of the country. The principle of continuous circulation of heated, clean air to every corner is not only healthful but economical. There will be no stagnant air chambers in your home. When the heated air leaves the furnace, after giving up its heat, it returns to the furnace through the outer rim of the register, where it is cleaned, moistened and re-circulated through the heat register.



This sectional view shows clearly the extra large cold air return and the quick active warm air supply which increases circulation and prevents cold stagnant air pockets.

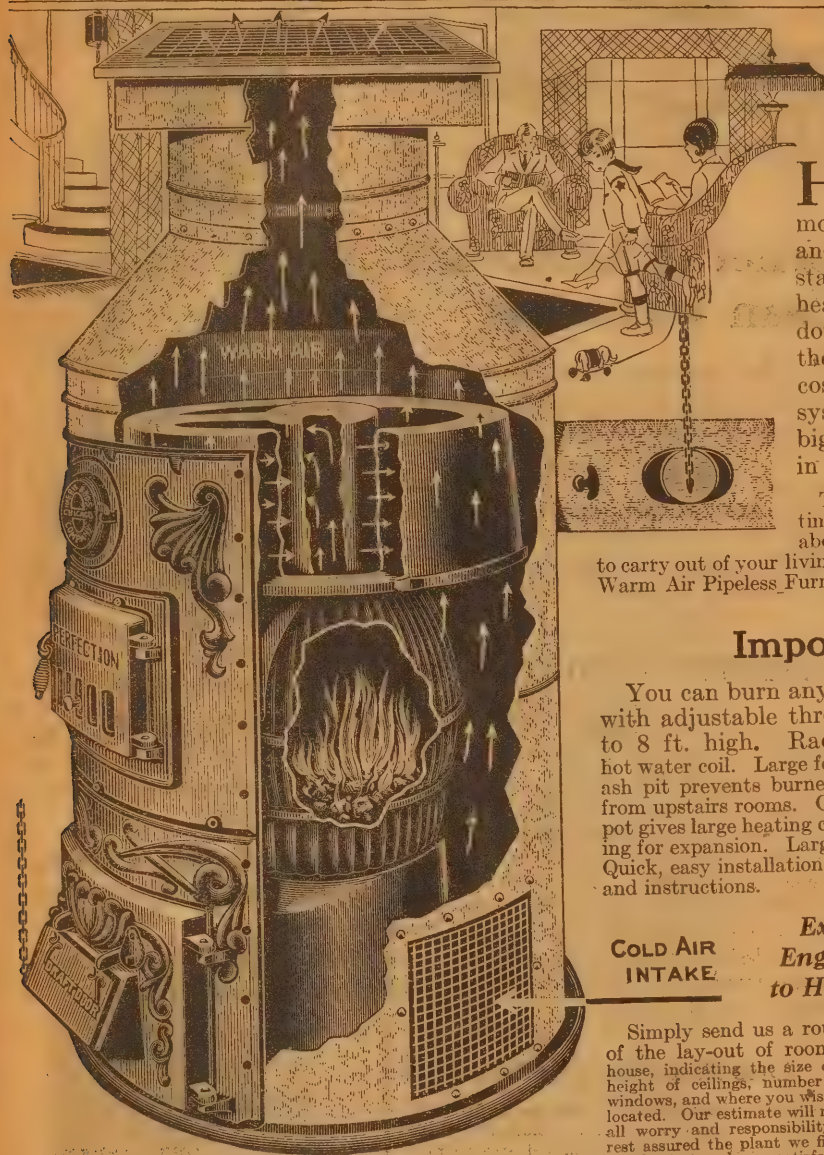
The Splendid One Register Heating System



With each Harris Pipeless Furnace we furnish a Black Japanned Finished Register of suitable size to supply an abundance of cold air to the furnace.

The outer casing is 26 gauge bright galvanized steel, lined with asbestos and galvanized corrugated steel.

Perfection Single Casing Pipeless Furnaces



Sectional view showing the excellent interior construction and air circulation

Heat All Rooms Thru One Register

HARRIS Warm Air Re-circulating Pipeless Furnaces cost but little more than an ordinary heating stove, and are much easier handled and installed when you consider that your heating stove must be put up and taken down every six months or so. Besides the substantial saving in their low first cost, they are the most compact heating systems offered today. There are no big cumbersome pipes to take up room in your basement.

The heat is under complete control at all times and easily regulated from the room directly above the furnace. No coal to carry in, no ashes to carry out of your living rooms when you use a Harris Re-circulating Warm Air Pipeless Furnace.

Important Features!

You can burn any kind of fuel with best results. Made with adjustable throat to fit in any basement from 6 ft. to 8 ft. high. Radiator clean-out plug. Tappings for hot water coil. Large feed door. Triangular revolving grates. Deep ash pit prevents burned out grates. Draft and damper controlled from upstairs rooms. Cast iron reversible radiator. Extra deep fire-pot gives large heating capacity; corrugated and in two sections allowing for expansion. Large water pan, cleans, purifies and moistens air. Quick, easy installation with our simple easily understood blue-prints and instructions.

**COLD AIR
INTAKE**

**Expert
Engineers
to Help You**

Simply send us a rough sketch of the lay-out of rooms in your house, indicating the size of all rooms, height of ceilings, number and size of windows, and where you wish the furnace located. Our estimate will relieve you of all worry and responsibility. You can rest assured the plant we figure for you will heat your home satisfactorily in all weather.



**COLD AIR
INTAKE**

Prices and Specifications of Furnaces Shipped from Factory in Central Illinois

Furnace Number.....	17-E-620	17-E-622	17-E-624	17-E-626	17-E-628	17-E-630
Heating Cap., in cubic feet.....	8,000	13,000	18,000	28,000	38,000	48,000
Diam. of Casing, in inches.....	34	38	42	46	50	54
Height to Top of Casing, in inches.....	56	59	62	65	68	73
Height of Radiator, in inches.....	13	13	13	14	14	14
Diam. of Snake Pipe, in inches.....	8	8	8	9	10	10
Size of Heating Register, in inches.....	18x24	20x26	22x28	28x28	28x36	36x36
Inside Diam. of Fire Pot, in inches.....	20	22	24	26	28	30
Shipping Weight, in pounds.....	817	991	1198	1465	1870	2110
Price, complete.....	\$63.50	\$73.00	\$90.00	\$110.00	\$135.00	\$160.00

Only one big centrally located register to comfortably heat all the rooms in your home; giving you more space in your living room, which otherwise would be taken up by the stove, radiators and unnecessary registers.

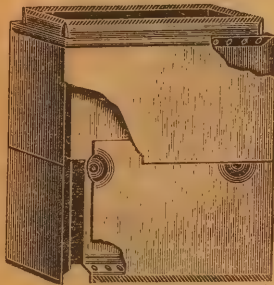
Improved Warm Air Furnace Equipment

The warm air furnace equipment on this and the following page present a careful selection. All improved features to increase the efficiency of warm air heating systems and simplify their installation.

Let Our Heating Engineers Help You

If you are planning to install a heating system and do not thoroughly understand all details of installation, you should take advantage of our Free Engineering service. Experts are waiting to help you.

Self-Locking DOUBLE Wall Pipe

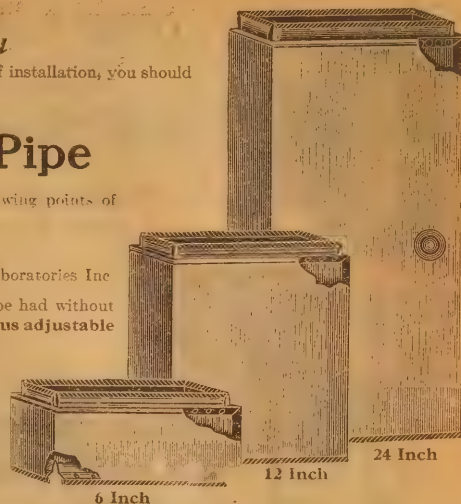


17-E-117.
Adjustable Joint

Our Self-Locking Double Wall Pipe possesses the following points of superiority:

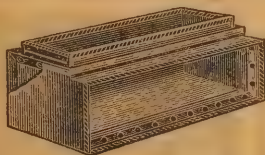
- 1—Locks automatically and permanently.
- 2—Complies with all requirements of the Underwriters Laboratories Inc
- 3—Any desired length, even to a fraction of an inch can be had without cutting. This is accomplished by means of our ingenious adjustable joint No. 17-E-117 illustrated at the left.
- 4—By using double wall pipe greatest efficiency can be obtained by saving 25 per cent, in transmitting heat as compared with single pipe wrapped with asbestos paper.

Low Prices!



Illustrating three sizes of our self-locking Double Wall Pipe

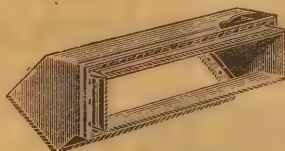
Order by Number		17-E-14	17-E-16	17-E-17	17-E-18
Size of Pipe	Inside	2½x10 ins.	2½x12 ins.	3x10 ins.	3x12 ins.
	Outside	3x10½ ins.	3x12½ ins.	3½x10½ ins.	3½x12½ ins.
Section 4 inches long		\$0.33	\$0.46	\$0.33	\$0.46
Section 6 inches long		.46	.60	.46	.60
Section 10 inches long		.60	.70	.60	.70
Section 12 inches long		.65	.75	.65	.75
Section 18 inches long		.88	1.05	.88	1.05
Section 24 inches long		1.15	1.40	1.15	1.40
17-E-117 Adjustable Joint		.65	.75	.65	.75



Stack Tees

17-E-116

For 17-E-14 Wall Pipe.....	\$.87
For 17-E-16 Wall Pipe.....	1.08
For 17-E-17 Wall Pipe.....	.87
For 17-E-18 Wall Pipe.....	1.08



Stack Angles

17-E-21

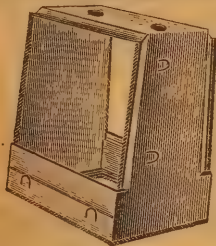
For 17-E-14 Wall Pipe.....	\$.49
For 17-E-16 Wall Pipe.....	.54
For 17-E-17 Wall Pipe.....	.49
For 17-E-18 Wall Pipe.....	.54

17-E-132

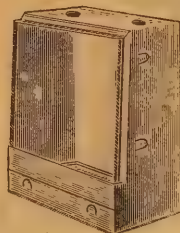
Base Board Registers

17-E-132. Newest and most efficient steel registers. This register can be attached to the tin box or stock head by means of straps for which holes have been provided. Wood screws are furnished with each register for attaching to studding.

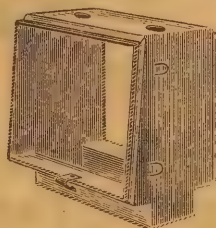
Size	Black	Oxidized	Size	Black	Oxidized
	Japanned	Cop.		Japanned	Cop.
8x10.....	\$1.70	\$3.00	10x12.....	\$3.10	\$4.15
9x12.....	2.50	3.35	11x13.....	3.75	5.65



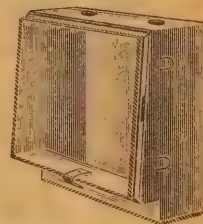
Stack Heads for First Floor



17-E-2. Stack Heads. For first Floor. Two Registers.	17-E-1. Stack Head. For first Floor. One Register.
8x10.....\$1.90	8x10.....\$1.60
9x12.....2.10	9x12.....1.85
10x12.....2.10	10x12.....1.85
11x13.....2.25	11x13.....2.00



Stack Heads for Second Floor

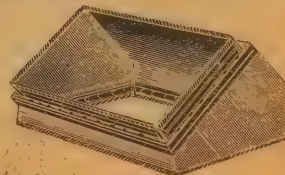
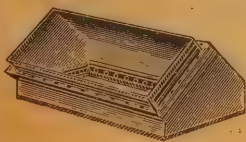


17-E-5. Stack Head. For second Floor. Two Registers.	17-E-4. Stack Head. For second Floor. One Register.
8x10.....\$1.90	8x10.....\$1.60
9x12.....2.10	9x12.....1.85
10x12.....2.10	10x12.....1.85

Angles for First Floor

17-E-221. Angles. For use first Floor Stack Heads 17-E-1.	17-E-521. Angles. For use first Floor Stack Heads 17-E-2.
8x10.....\$1.61	8x10.....\$1.99
9x12.....1.83	9x12.....2.10
10x12.....1.83	10x12.....2.10
11x13.....2.00	11x13.....2.25

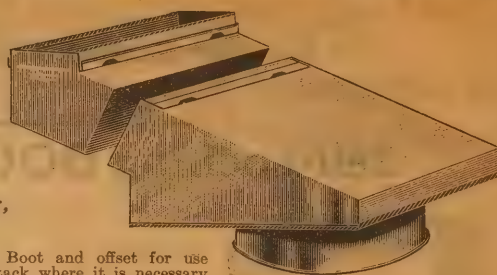
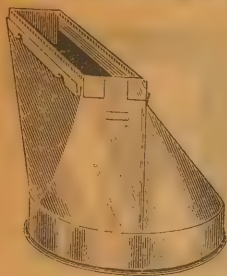
Prices on Single Stack Heads quoted on request



Warm Air Furnace Equipment^{and} Supplies

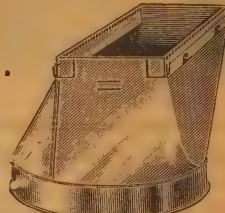
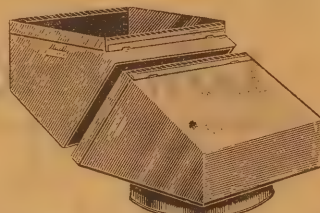
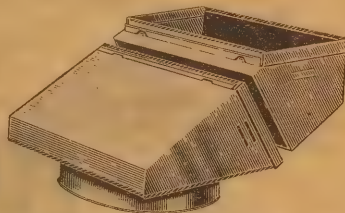
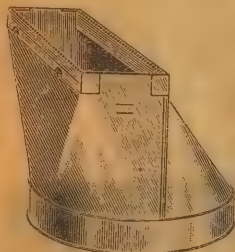
Single Boots for Wall Stacks and Stack Heads

*Boots cannot be furnished with collar,
larger or smaller than indicated*



For 17-E-14 Wall Pipe, 7 inch collar.....	54c
For 17-E-16 Wall Pipe, 8-9 inch collar.....	62c
For 17-E-17 Wall Pipe, 8-9 inch collar.....	54c
For 17-E-18 Wall Pipe, 9-10 inch collar.....	62c

17-E-352. Boot and offset for use with wall stack where it is necessary to offset over a beam.	
For 17-E-14 Wall Pipe, 7 inch collar.....	85c
For 17-E-16 Wall Pipe, 8-9 inch collar.....	95c
For 17-E-17 Wall Pipe, 8-9 inch collar.....	85c
For 17-E-18 Wall Pipe, 9-10 inch collar.....	95c

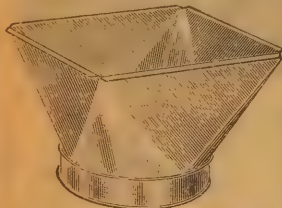


17-E-408. Boot for First Floor Stack Head No. 17-F-1.	
Size, 8x10, 8 in. collar.....	65c
Size, 9x12, 9 in. collar.....	74c
Size, 10x12, 10 in. collar.....	74c
Size, 11x13, 12 in. collar.....	88c

17-E-452. Boot and offset for use with First Floor Stack Head 17-F-1, to offset over beam.	
Size, 8x10, 8 in. collar.....	\$1.20
Size, 9x12, 9 in. collar.....	1.35
Size, 10x12, 10 in. collar.....	1.35
Size, 11x13, 12 in. collar.....	1.55

17-E-652. Boot and offset for use with First Floor Stack Head 17-F-2, to offset over beam.	
Size, 8x10, 8 in. collar.....	\$1.21
Size, 9x10, 9 in. collar.....	1.35
Size, 10x12, 10 in. collar.....	1.35
Size, 11x13, 12 in. collar.....	1.56

17-E-608. Boot for First Floor Stack Head 17-E-2.	
Size, 8x10, 8 in. collar.....	\$0.77
Size, 9x12, 9 in. collar.....	.86
Size, 10x12, 10 in. collar.....	.86
Size, 11x13, 12 in. collar.....	1.00

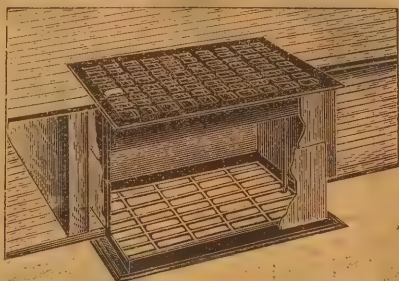


Register Box

17-E-601. Register Box for First Floor Registers.

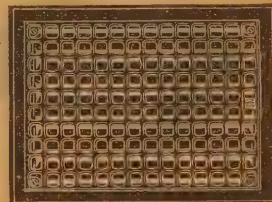
Size, 8x10, 8 in. collar.....	\$0.46
Size, 9x12, 9 in. collar.....	.49
Size, 10x12, 10 in. collar.....	.55
Size, 12x15, 12 in. collar.....	.74
Size, 14x20, 14 in. collar.....	1.54

Adjustable Ventilators



17-E-602. Adjustable Ventilators. Adjustable from 7 to 12 inches, supplied with Black Japanned Register at top and White Japanned Register Face at bottom.

Size, 8x10.....	\$3.70
Size, 9x12.....	4.50
Size, 10x12.....	\$5.35
Size, 12x14.....	8.40



Floor Register

17-E-600. Floor Register.

Size	Register	Border
8x10	\$1.40	\$0.95
9x12	1.75	1.20
10x12	2.00	1.40
12x15	3.75	2.40
14x20	8.00	4.00

Return Air Register Face

*Strongly Made
of Select Oak*

Eight Sizes



16x24.....	\$1.60	18x30.....	\$2.25
20x24.....	2.00	20x30.....	2.50
14x30.....	1.75	24x30.....	3.00
16x30.....	2.00	30x30.....	3.75

17-E-700. Oak Return Air Face.

Asbestos Paper

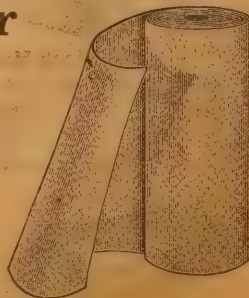
17-E-710. A fireproof material made of natural, mineral asbestos fibre. It is very soft and pliable. It is usually applied with starch paste or the special asbestos paste listed below.

In addition to covering hot air pipes, asbestos paper can be used for covering ceilings, walls, partitions, exposed to heat. It comes in rolls 36 inches wide, weighing about 1 lb. to the sq. yd.

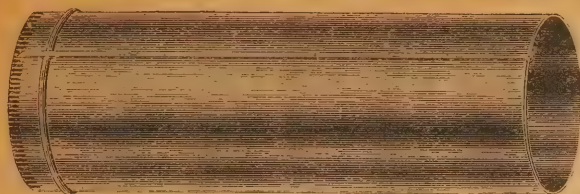
100 pound rolls, each.....	\$10.00
50 pound rolls, each.....	5.50

Asbestos Paste

17-E-712. Asbestos Paste for applying asbestos paper to pipes. Comes in 2½ pound packages. Per package..... 60c



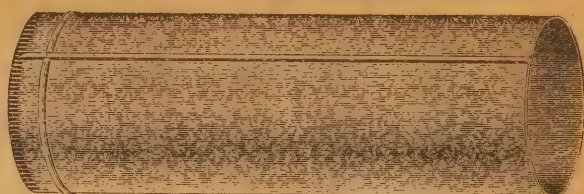
Select Material of Best Manufacture



17-E-145.

Warm Air Tin Pipe

7 inch, per foot.....	24c	10 inch, per foot.....	30c
8 inch, per foot.....	25c	12 inch, per foot.....	35c
9 inch, per foot.....	26c	14 inch, per foot.....	64c

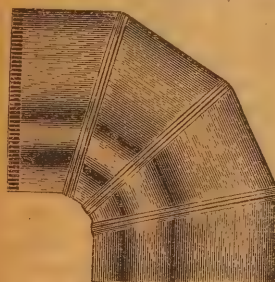


17-E-7530.

26 Gauge Galvanized Smoke Pipe

6 inch, per foot.....	30c	9 inch, per foot.....	33c
7 inch, per foot.....	31c	10 inch, per foot.....	36c
8 inch, per foot.....	32c	12 inch, per foot.....	39c

Warm Air Tin Pipe and Galvanized Smoke Pipe, made in two foot lengths only.



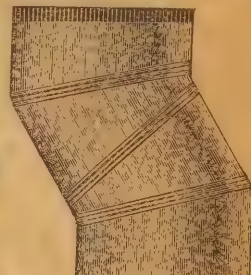
17-E-146.

Adjustable Warm Air Tin Elbows

7 inch, each.....	33c
8 inch, each.....	35c
9 inch, each.....	39c
10 inch, each.....	46c
12 inch, each.....	77c



All Pipe Perfectly Made Easily Jointed and Tight



17-E-7540.

26 Gauge Adjustable Galvanized Smoke Elbows

6 inch, each.....	\$0.40
7 inch, each.....	.46
8 inch, each.....	.54
9 inch, each.....	.62
10 inch, each.....	.77
12 inch, each.....	1.08

Other Desirable Features

Our Hot Air and Smoke Pipe comes in two foot lengths. Shipped knocked down. Each section is formed and shaped all ready to be locked in position and connected. By shipping this pipe knocked down and packed solid in a bundle it takes a much lower freight rate.

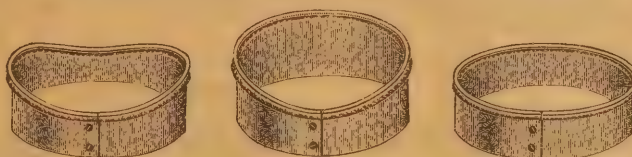
Steel Warm Air Dampers



17-E-147.

7 inch, per foot.....	23c
8 inch, per foot.....	25c
9 inch, per foot.....	28c
10 inch, per foot.....	31c
12 inch, per foot.....	46c
14 inch, per foot.....	62c

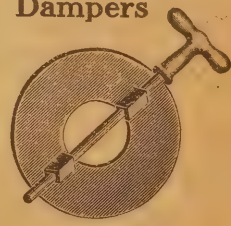
Warm or Cold Air Pipe Collars



Collar for attaching Hot Air and Cold Air Pipe to furnace.

Top Bonnet Collar 17-E-148.	Pitch Bonnet Collar 17-E-149.	Side Bonnet Collar 17-E-150.
7 inch, each.....28c	7 inch, each.....28c	10 inch, each.....35c
8 inch, each.....31c	8 inch, each.....31c	12 inch, each.....40c
9 inch, each.....35c	9 inch, each.....35c	14 inch, each.....45c
10 inch, each.....39c	10 inch, each.....39c	16 inch, each.....65c
12 inch, each.....46c	12 inch, each.....46c	18 inch, each.....75c
14 inch, each.....56c	14 inch, each.....56c	20 inch, each.....95c

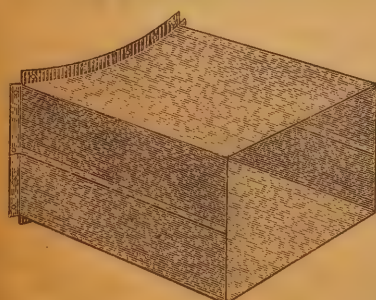
Cast Iron Smoke Dampers



17-E-7535.

6 inch, each.....	45c
7 inch, each.....	46c
8 inch, each.....	63c
9 inch, each.....	78c
10 inch, each.....	95c
12 inch, each.....	\$1.10

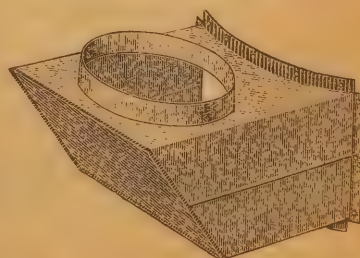
Rectangular Return Air Shoe



17-E-701. Return Air Shoe. For Rectangular Duct. Made of galvanized iron.	
Size, 10x16 in., ea.	\$2.70
Size, 12x18 in., ea.	2.80
Size, 13x20 in., ea.	3.20
Size, 14x23 in., ea.	3.60
Size, 15x26 in., ea.	4.25

Round Return Air Shoe

17-E-702. Return Air Shoe. For Round Ducts. Made of galvanized iron.	
10x16 in., 14 in. collar. Each.....	\$3.50
12x18 in., 16 in. collar. Each.....	\$3.90
13x20 in., 18 in. collar. Each.....	\$4.50
14x23 in., 20 in. collar. Each.....	\$5.25
15x26 in., 22 in. collar. Each.....	\$5.50



When ordering return air shoes give casing diameter of furnaces.

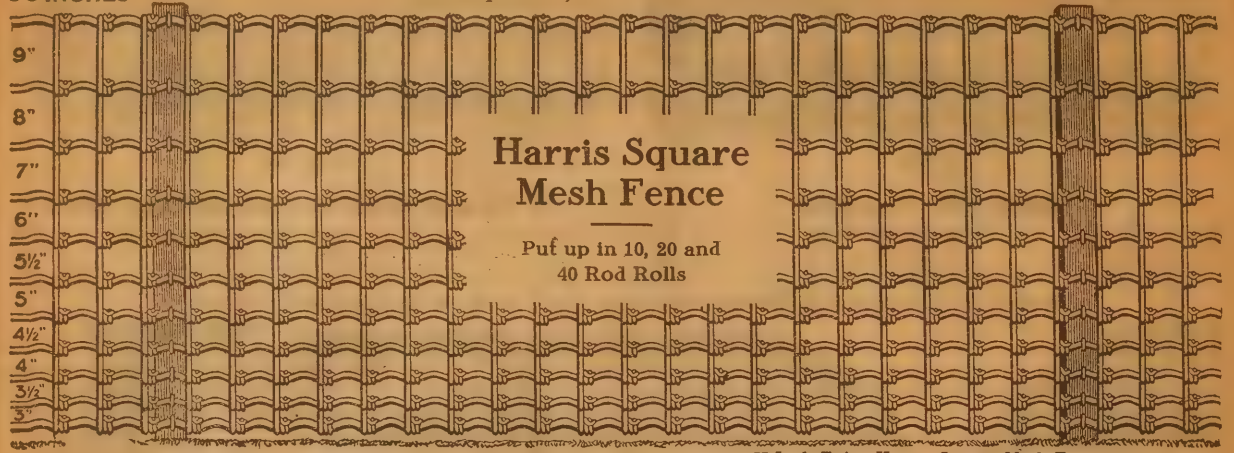
HARRIS SQUARE MESH FENCE

You will find this to be a very durable fencing. It is made of open hearth steel galvanized with the best quality of pure zinc spelter. This fencing has uniform tension curves in the line wires, which provide amply for contraction and expansion, due to changes in temperature, and keep the fence straight and tight during all seasons of the year. The fence will stretch evenly and perfectly over either level or hilly ground.

55 INCHES

Put up in 10, 20 and 40 Rod Rolls.

6 INCH MESH



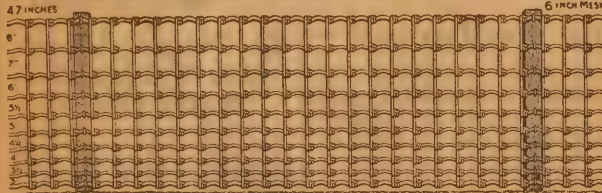
Harris Square Mesh Fence

Put up in 10, 20 and 40 Rod Rolls

55-Inch Square Mesh Fence

11 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 12 gauge High Carbon Hard Steel Coiled Spring intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 9 inches at the top. Approximate weight of 100 rods, 1,120 pounds. Shipped from factory near Chicago.

2-E-111. 55-inch "HARRIS" fence. Price, per rod **60c**
2-E-101. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 890 pounds. Price, per rod **38c**



47-Inch Harris Square Mesh Fence

10 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 12 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 8 inches at the top. Approximate weight of 100 rods, 1,020 pounds. Shipped from factory near Chicago.

2-E-113. 47-inch "HARRIS" fence. Price, per rod **52c**
2-E-103. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 810 pounds. Price, per rod **40c**

47-Inch Extra Heavy Harris Square Mesh Fence

10 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 12 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 8 inches at the top. Approximate weight of 100 rods, 1,280 pounds.

2-E-113 1/2. 47-inch "HARRIS" fence. Price, per rod **62c**
2-E-103 1/2. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 990 pounds. Price, per rod **47c**



39-Inch Harris Square Mesh Fence

9 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 12 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 7 inches at the top. Approximate weight of 100 rods, 920 pounds. Shipped from factory near Chicago.

2-E-115. 39-inch "HARRIS" fence. Price, per rod **40c**
2-E-105. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 700 pounds. Price, per rod **36c**

39-Inch Extra Heavy Harris Square Mesh Fence

9 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 11 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 7 inches at the top. Approximate weight of 100 rods, 1,120 pounds. Shipped from factory near Chicago.

2-E-115 1/2. 39-inch "HARRIS" square mesh fence. Price, per rod **49c**
2-E-105 1/2. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 890 pounds. Price, per rod **38c**

55-Inch Extra Heavy Square Mesh Fence

11 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 11 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 9 inches at the top. Approximate weight of 100 rods, 1,410 pounds.

2-E-111 1/2. 55-inch "HARRIS" fence. Price, per rod **70c**
2-E-101 1/2. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 1,100 pounds. Price, per rod **47c**



32-Inch Harris Square Mesh Fence

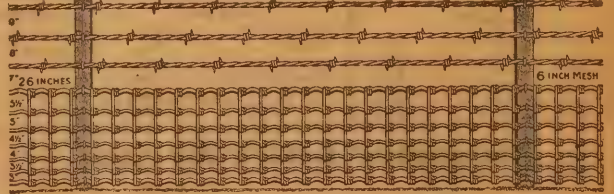
8 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 12 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 6 inches at the top. Approximate weight of 100 rods, 830 pounds. Shipped from factory near Chicago.

2-E-117. 32-inch "HARRIS" fence. Price, per rod **41c**
2-E-107. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 650 pounds. Price, per rod **28c**

32-Inch Extra Heavy Harris Square Mesh Fence

8 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 11 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 6 inches at the top. Approximate weight of 100 rods, 980 pounds.

2-E-117 1/2. 32-inch "HARRIS" square mesh fence. Price, per rod **47c**
2-E-107 1/2. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 780 pounds. Price, per rod **31c**



26-Inch Harris Square Mesh Fence

7 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 12 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 5 1/2 inches at the top. Approximate weight of 100 rods, 720 pounds. Shipped from factory near Chicago.

2-E-119. 26-inch "HARRIS" fence. Price, per rod **36c**
2-E-109. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 580 pounds. Price, per rod **24c**

26-Inch Extra Heavy Harris Square Mesh Fence

7 wires high. Stays 6 inches apart. No. 9 gauge High Carbon Hard Steel Coiled Spring wires at the top and bottom. No. 11 gauge intermediate line wires. No. 12 gauge stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires vary from 3 inches at the bottom to 5 1/2 inches at the top. Approximate weight of 100 rods, 850 pounds. Shipped from factory near Chicago.

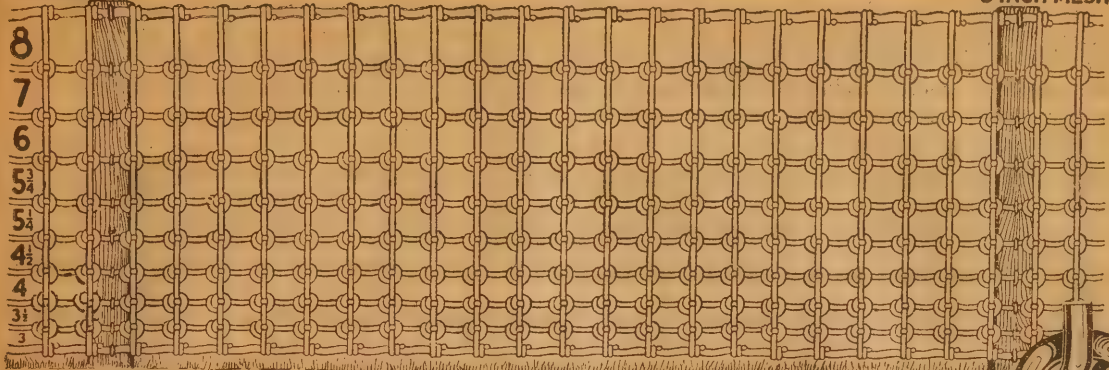
2-E-119 1/2. 26-inch "HARRIS" square mesh fence. Price, per rod **36c**
2-E-109 1/2. Same as above, but with stays 12 inches apart. Approximate weight of 100 rods, 680 pounds. Price, per rod **28c**

Heavy Farm Fences—All No. 9½ Wire!

47 INCHES

Galvanized

6 INCH MESH



For Strength and Long Lasting Service!

The designers of Perfection Farm Fences have carefully regarded every detail of construction to produce a fence that will endure under the most severe conditions. The open hearth steel wire is all extra heavy No. 9½ with a thick coating of galvanizing insuring strength and long life. An ingenious knot properly designed and tied to allow for uneven ground and climatic changes holds the line and stay wires firmly in place. Four heights to choose from covering every farm fence requirement. Perfection fencing put up in 10 and 20 rod rolls.

The Knot

Securely wrapped about the line and stay wires; prevents slipping; not too close to avoid air circulation. Permits any moisture to dry quickly. Fence adjusts itself over uneven ground and provides for expansion and contraction.

Perfection 47-inch High Giant Farm Fence!

2-E-183. Made to meet the demand for a high fence for pastures to turn hogs and cattle. A strong, serviceable, safe fence.

CONSTRUCTION: The top, bottom, line and stay wires are all No. 9½ gauge, all high quality Open Hearth steel, heavily galvanized, stays spaced 6 inches apart (32 to the rod). The high carbon steel wires with the tension curves, keep the Fence tight at all times. Spacing between the line wires, 3, 3½, 4, 4½, 5¼, 5½, 6, 7 and 8 inches. Weight per 100 rods, **72c** 1890 lbs. Per rod.....

Size of Wire

Margin wires, line wires and stay wires are all made of heavily galvanized open hearth No. 9 steel wire (actual size above).

Perfection 26-inch High Farm Fence

2-E-184. Perfection low Fencing heavily and strongly made to turn hogs, sheep and small animals. By adding two or three strands of barbed wire above this Perfection Fence, the increased height gained presents a general purpose farm fence.

CONSTRUCTION: The top, bottom, line and stay wires, all No. 9½ gauge, stays spaced 6 inches apart (32 to the rod). High carbon steel wires with tension curves keep this fence tight under all conditions. Spacing between line wires, 3, 3½, 4, 4½, 5¼ and 5½ inches. Weight per 100 rods, 1200 lbs.

Perfection 32-inch High Farm Fence

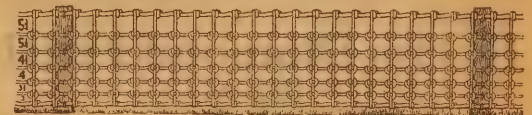
2-E-185. Medium high Farm Fencing, embodying all features of "Perfection" Fence, strength and durability. A splendid fence for hogs and small cattle enclosures. By adding two strands of barbed wire at top, it is converted into a general farm fence of sufficient height to turn larger cattle.

CONSTRUCTION: The top, bottom, line and stay wires, all No. 9½ gauge, stays spaced 6 inches apart (32 to the rod). High carbon steel wires with tension curves keep this fence in perfect shape at all times. Spacing between line wires, 3, 3½, 4, 4½, 5¼, 5½ and 6 inches. Weight per 100 rods, 1420 lbs.

Perfection 39-inch High Farm Fence

2-E-186. Perfection High Fencing, identically the same as our Giant Perfection Fence at top of page, except that it is made 8 inches lower. Extra height can be gained and a feature of protection and safety added by using one strand of barbed wire at top. Suitable for all farm enclosures to turn large and small animals.

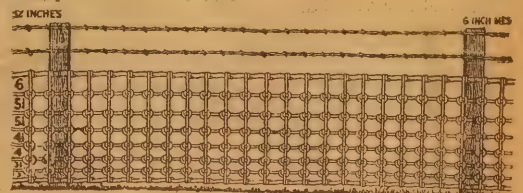
CONSTRUCTION: The top, bottom, line and stay wires are all No. 9½ gauge, stays spaced 6 inches apart (32 to the rod). High carbon steel wires with tension curves hold this fence tight at all times. Spacing between wires, 3, 3½, 4, 4½, 5¼, 5½, 6 and 7 inches. Weight per 100 rods, 1680 lbs.



No. 2-E-184

Perfection Fencing 26 inches high is put up in 10, 20 and 30 rod rolls. Price, per rod.....

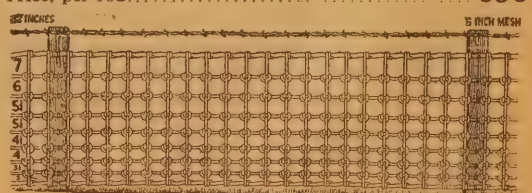
49c



No. 2-E-185

Perfection Fencing 32 inches high is put up in 10, 20 and 30 rod rolls. Price, per rod.....

58c



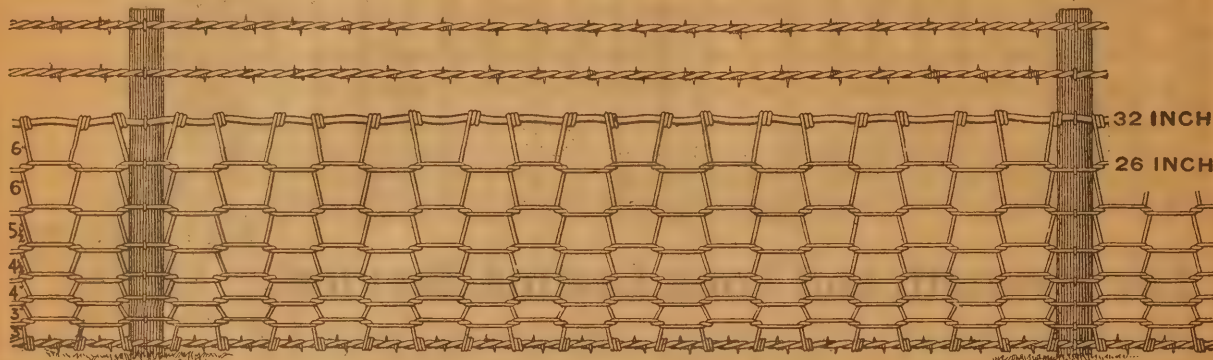
No. 2-E-186

Perfection Fencing 39 inches high is put up in 10, 20 and 30 rod rolls. Price, per rod.....

60c

Perfection and Victor Hog Fence

This fence is not as heavy as some of our other hog fences, but it possesses all the strength necessary for turning even the most vicious hogs. The barbed wire woven into the bottom is an exclusive feature that prevents hogs from lifting the fence with their noses and passing under. This fencing is especially adapted for use as a temporary fence, for it can be easily moved from place to place and restretched as often as necessary. Put up in 10, 20 and 40-rod rolls. Prices do not include barbed wire.



26-Inch Victor Hog Fence

7 wires high. Barbed wire woven into bottom. Stays 6 inches apart. No. 11 gauge High Carbon Hard Steel Coiled Spring Wire at the top. No. 14 gauge intermediate line and stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires, commencing at the bottom, are as follows: 3, 3, 4, 4½, 5½ and 6 inches. Approximate weight of 100 rods, 425 pounds. Shipped from factory near Chicago.

2-E-122. 26-inch Victor Hog Fence. Price, per rod..... **24c**

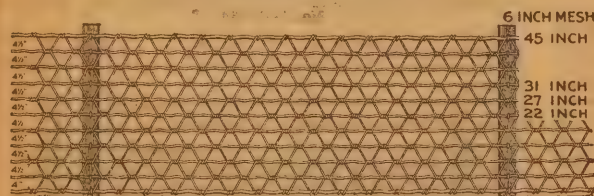
NOTICE—By using two or three strands of barbed wire above Victor Hog Fence an excellent general purpose farm fence can be made at a very low cost. Barbed wire not included at this price.

32-Inch Victor Hog Fence

2-E-123. Same as above, but 32 inches high. 8 wires high. Approximate weight of 100 rods, 500 pounds. Price, per rod..... **30c**

Harris Diamond Fencing

For Hogs and Stock



This fence is thoroughly practical and gives the very best of satisfaction and service. The diamond shaped meshes hold the running wires in place and prevent slipping and spreading. In fact, every wire in the fence is a brace and support to all other wires.

The running wires are drawn from high carbon hard steel and are provided with tension curves which contract and expand with the changes of temperature and keep the fence straight and tight at all times.

While this fence is not quite so heavy as some of our other styles, yet it is strong enough for all ordinary requirements and makes an excellent general purpose farm fence. It is portable and can be moved from place to place as often as desired.

The top and bottom wires are No. 11 gauge, intermediate wires No. 14 gauge, and the mesh wires No. 16 gauge. Meshes 6 inches apart. This is an excellent combination hog and stock fence, and can be used by stretching two or three wires of barbed wire above the fence.

2-E-302. 27 inches high, weight 4½ pounds. Per Rod..... **31c**

2-E-303. 31 inches high, weight 5 pounds. Per Rod..... **37c**

2-E-300. 45 inches high, weight 6½ pounds. Per Rod..... **48c**

26-Inch Perfection Hog Fence (Extra Heavy)

7 wires high. Barbed wire woven into bottom. Stays 6 inches apart. No. 10 gauge High Carbon Hard Steel Coiled Spring Wire at the top. No. 13 gauge intermediate line and stay wires. All wires drawn from Open Hearth Steel and heavily galvanized. Spaces between line wires, commencing at the bottom, are as follows: 3, 3, 4, 4½, 5½ and 6 inches. Approximate weight of 100 rods, 525 pounds. Shipped from factory near Chicago.

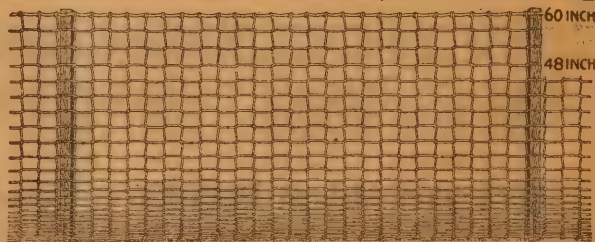
2-E-112. 26-inch Perfection Hog Fence. Price, per rod..... **29c**

NOTICE—By using two or three strands of barbed wire above Perfection Hog Fence an excellent general purpose farm fence can be made and the cost is very low.

32-Inch Perfection Hog Fence (Extra Heavy)

2-E-121. Same as above, but 32 inches high. 8 wires high. Approximate weight of 100 rods, 600 pounds. Price, per rod..... **35c**

Superior Poultry Fencing



Poultry Fence. Suitable for enclosing poultry lots, gardens and young orchards. Neither the line nor stay wires can be slipped, and it is woven sufficiently close to turn all kinds of poultry and small animals. A practical and satisfactory combination poultry and stock fence. All wires are of high carbon steel, heavily galvanized.

Our thirty-day trial fully protects you. You may erect the fence, and if it is not satisfactory within 30 days, take it down, return it to us, and we will pay freight on same and refund your money in full.

Put up in 10, 15, 20 rod rolls.

2-E-16. 48 inches high (20 wires), stays 4½ inches apart, No. 14 gauge top and bottom wires, 18 gauge intermediate and stay wires, weight approximately 400 pounds per 100 rods. Per Rod..... **40c**

2-E-14. 48 inches high (17 wires), stays 6 inches apart, 10 gauge top and bottom wires, 14 gauge intermediate and stay wires, weight approximately 825 pounds, per 100 rods. Per Rod..... **48c**

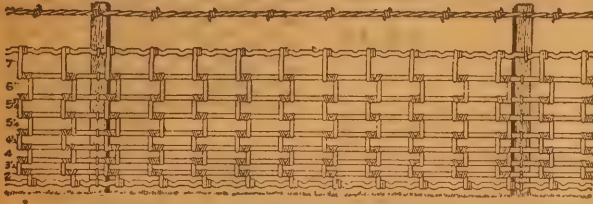
2-E-17. 60 inches high (23 wires), stays 4½ inches apart, No. 14 gauge top and bottom wires, 18 gauge intermediate and stay wires, weight approximately 450 pounds, per 100 rods. Per Rod..... **44c**

2-E-15. 60 inches high (19 wires), stays 6 inches apart, No. 10 gauge top and bottom wires, 14 gauge intermediate and stay wires, weight approximately 925 pounds, per 100 rods. Per Rod..... **55c**

Perfection Special Farm and Lawn Fencing

A page of carefully chosen fencing. The various designs cover a splendid selection for cattle, sheep, pigs, poultry and for lawn or estate enclosures. All are highly recommended and your decisions can be safely and quickly made according to the price you wish to pay.

Sheep and Cattle Fencing



LIGHT WEIGHT FENCES

CONSTRUCTION: No. 11 Top and Bottom Margin, No. 14 Line and Stay Wire. Stays spaced 12 inches apart. All open hearth steel heavily galvanized.

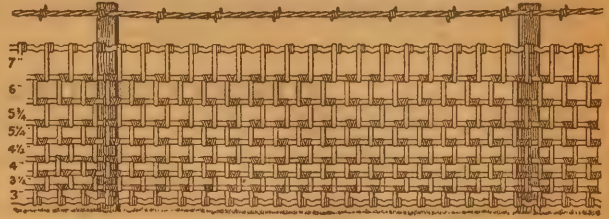
2-E-148.	26 in. high, 12 in. Stay.	Wt., 100 rods, 350 lbs., per rod.	20c
2-E-147.	32 in. high, 12 in. Stay.	Wt., 100 rods, 400 lbs., per rod.	23c
2-E-146.	39 in. high, 12 in. Stay.	Wt., 100 rods, 450 lbs., per rod.	26c
2-E-145.	47 in. high, 12 in. Stay.	Wt., 100 rods, 500 lbs., per rod.	30c

HEAVY WEIGHT FENCES

CONSTRUCTION: Styles 2-E-131 and 2-E-132 have a No. 9 top, No. 10 bottom margin; Styles 2-E-133 and 2-E-134 a No. 10 top and bottom margin. All have No. 12 Line, No. 12 1/2 Stay. Stays spaced 12 inches apart. All open hearth steel, heavily galvanized.

2-E-134.	26 in. high, 12 in. Stay.	Wt., 100 rods, 560 lbs., per rod.	29c
2-E-133.	32 in. high, 12 in. Stay.	Wt., 100 rods, 610 lbs., per rod.	32c
2-E-132.	39 in. high, 12 in. Stay.	Wt., 100 rods, 700 lbs., per rod.	36c
2-E-131.	47 in. high, 12 in. Stay.	Wt., 100 rods, 800 lbs., per rod.	40c

Hog and Little Pig Fences



LIGHT WEIGHT FENCES

CONSTRUCTION: No. 11 Top and Bottom Margin, No. 14 Line and Stay Wires. Stays spaced 6 inches apart. All open hearth steel, heavily galvanized.

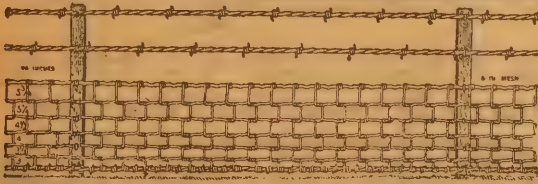
2-E-143.	26 in. high, 6 in. Stay.	Wt., 100 rods, 450 lbs., per rod.	25c
2-E-142.	32 in. high, 6 in. Stay.	Wt., 100 rods, 525 lbs., per rod.	30c
2-E-141.	39 in. high, 6 in. Stay.	Wt., 100 rods, 575 lbs., per rod.	33c
2-E-140.	47 in. high, 6 in. Stay.	Wt., 100 rods, 650 lbs., per rod.	36c

HEAVY WEIGHT FENCES

CONSTRUCTION: Styles 2-E-125 and 2-E-126 have a No. 9 Top and No. 10 Bottom Margin. Styles 2-E-127 and 2-E-128 a No. 10 Top and Bottom Margin. All have a No. 12 Line and No. 12 1/2 Stay Wire. Stays spaced 6 inches apart. All open hearth and heavily galvanized.

2-E-128.	26 in. high, 6 in. Stay.	Wt., 100 rods, 675 lbs., per rod.	35c
2-E-127.	32 in. high, 6 in. Stay.	Wt., 100 rods, 785 lbs., per rod.	40c
2-E-126.	39 in. high, 6 in. Stay.	Wt., 100 rods, 900 lbs., per rod.	44c
2-E-125.	47 in. high, 6 in. Stay.	Wt., 100 rods, 1020 lbs., per rod.	49c

Barbed Bottom Hog Fencing



CONSTRUCTION: No. 11 Top Margin, Hog Barbed Wire Bottom Margin, No. 14 Line and Stay. All open hearth steel, heavily galvanized. For a hog fence at a reasonable price, buy several rolls.

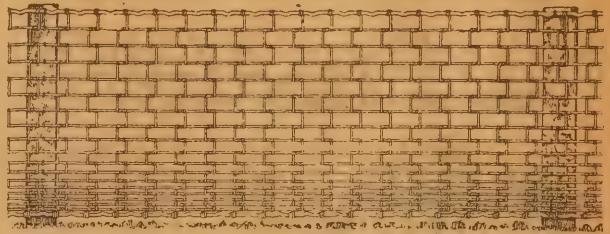
2-E-180.	26 in. high, 6 in. Stay.	Wt., 100 rods, 450 lbs., per rod.	25c
2-E-181.	32 in. high, 6 in. Stay.	Wt., 100 rods, 525 lbs., per rod.	29c
2-E-182.	26 in. high, 12 in. Stay.	Wt., 100 rods, 350 lbs., per rod.	22c

HEAVY WEIGHT BARBED WIRE BOTTOM FENCES

CONSTRUCTION: No. 10 Top Margin, Hog Barbed Wire Bottom Margin, No. 13 Line and Stay.

2-E-190.	26 in. high, 6 in. Stay.	Wt., 100 rods, 565 lbs., per rod.	31c
2-E-191.	32 in. high, 6 in. Stay.	Wt., 100 rods, 660 lbs., per rod.	36c

Perfection Poultry Fencing



An excellent Poultry Fence, carefully designed to meet every need of the perfectly enclosed poultry yard holding small and large chickens.

CONSTRUCTION: No. 11 Top and No. 12 Bottom Margin, No. 14 Line and Stay. Stays spaced 6 inches apart. All open hearth steel, heavily galvanized.

2-E-138.	36 in. high, 6 in. Stay.	Wt., 100 rods, 735 lbs., per rod.	43c
2-E-137.	50 in. high, 6 in. Stay.	Wt., 100 rods, 885 lbs., per rod.	50c
2-E-136.	60 in. high, 6 in. Stay.	Wt., 100 rods, 985 lbs., per rod.	55c

Perfection Lawn Fence

One of our leading and best selling styles. It makes a handsome yard and lawn fence and is admirably adapted for cemeteries and gardens. It turns everything—from all kinds of stock to chickens. It is very easily erected and it looks very well. This is a fence that is sure to please you. The construction is of the link chain type. Absolutely non-climbable. Furnished in any length rolls.



Special Low Prices

2-E-210.	36 inches high, No. 11 gauge, 2-inch mesh; weight per 100 feet, 165 pounds.	Price, per foot.	15c
2-E-211.	42 inches high, No. 11 gauge, 2-inch mesh; weight per 100 feet, 185 pounds.	Price, per foot.	16c
2-E-212.	48 inches high, No. 11 gauge, 2-inch mesh; weight per 100 feet, 205 pounds.	Price, per foot.	17c
2-E-213.	36 inches high, No. 10 gauge, 2-inch mesh; weight per 100 feet, 215 pounds.	Price, per foot.	18c
2-E-214.	48 inches high, No. 10 gauge, 2-inch mesh; weight per 100 feet, 270 pounds.	Price, per foot.	22c
2-E-215.	36 inches high, No. 10 gauge, 1 1/2-inch mesh; weight per 100 feet, 260 pounds.	Price, per foot.	23c
2-E-216.	48 inches high, No. 10 gauge, 1 1/2-inch mesh; weight per 100 feet, 310 pounds.	Price, per foot.	24c

U. S. Poultry Fence \$5⁴⁰

The U. S. Poultry Fence and Hexagon Mesh Poultry Netting are woven from 19 gauge steel wire, heavily galvanized before weaving

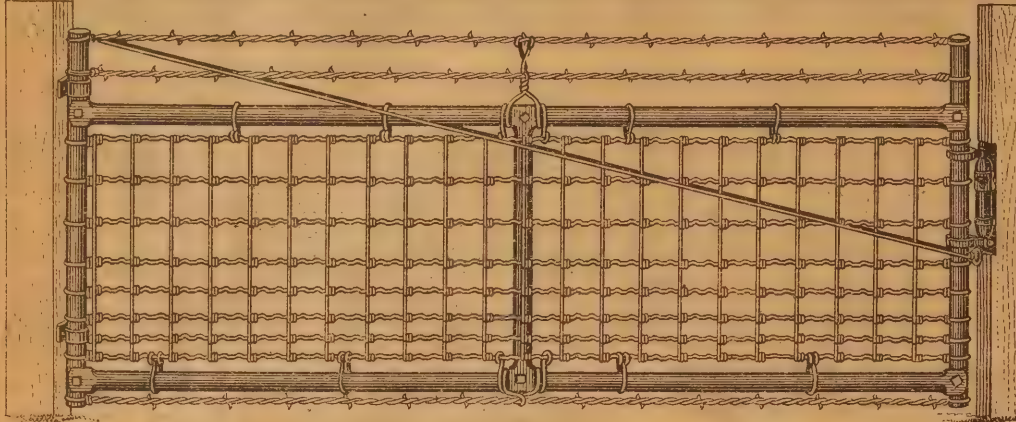
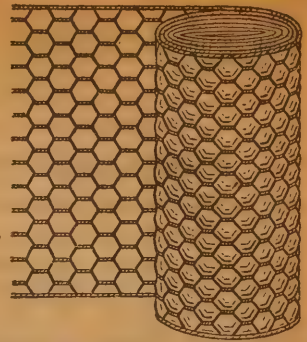
Per Bale

2-E-205. The U. S. Fence is 72 inches high and is so constructed that each parallel wire adds to the tensile strength making it the strongest and most efficient poultry fencing on the market. With this type of fence, top or bottom rails are not needed. Bales contain 150 lineal feet.

Price, per bale..... **\$5.40**

POULTRY NETTING

2-E-206. Hexagon Mesh Poultry Netting, 19 gauge wire, 2 inch mesh, galvanized before weaving. Put up in bales of 150 lineal feet. Price, per bale..... **\$2.75**

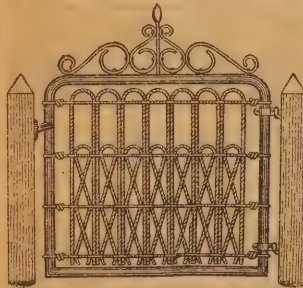


Adjustable Painted Gate

Height, 4½ feet; frame work, 2-inch O. D. reclaimed boiler tubes; fencing, all 9-inch galvanized, three strands barb wire; stay or adjustment wire 9-gauge galvanized; hinges, heavy eyebolt, 12-inch shanks, threaded 9 inches; latch, either chain or double, paint, two coats high-grade, grey enamel iron paint, brushed on; adjustable to any angle.

Furnished with eyebolt hinges.	With Double Latch.	With Chain Latch.
2-E-217. Size, 54 inches high, 10 ft. wide... \$7.70	2-E-227. \$7.15	2-E-219. Size, 54 inches high, 14 ft. wide... \$9.10
2-E-218. Size, 54 inches high, 12 ft. wide... 8.50	2-E-228. 8.00	2-E-221. Size, 54 inches high, 16 ft. wide... 9.90
		2-E-229. \$8.45
		2-E-230. 9.35

Ornamental Single Lawn Gates



The single lawn gates we offer are made of heavy Merchant's pipe measuring 1½ inches outside diameter and they are filled with Perfection Lawn Fence. These gates are strictly poultry-proof and very strong and durable. Each gate is fitted with good heavy hinges and an automatic latch. The frame is nicely painted with metallic paint to prevent rust. When these gates are ordered with Perfection Lawn Fence they should be specified three inches higher than the fence and gate and the fence and gate will then match.

Set posts, 3¼ inches further apart than width of gate ordered.

Number	Width Feet	Height Inches	Ornamental
2-E-405A	3	27 or 33	\$3.30
2-E-406A	3	39 or 45	3.40
2-E-407A	3	51 or 54	3.50
2-E-408A	3½	27 or 33	3.70
2-E-409A	3½	39 or 45	3.75
2-E-410A	3½	51 or 54	3.90

Ornamental Double Drive Gates



One side of the double gates is fitted with an automatic catch at the bottom so that it is possible to use just one-half of the gate as a single gate when so desired. Each of the two gates composing the double gate is braced diagonally with a heavy galvanized wire and the 12-foot wide double gate is braced in the center of each gate with a ¾-inch upright pipe, making them very rigid and strong.

Number	Width Feet	Height Inches	Ornamental	Plain
2-E-416A	10	27	\$ 8.30	\$ 8.05
2-E-417A	10	33	8.30	8.05
2-E-418A	10	39	8.75	8.50
2-E-419A	10	45	8.75	8.50
2-E-420A	10	51	9.20	8.95
2-E-421A	12	27	9.40	9.15
2-E-422A	12	33	9.40	9.15
2-E-423A	12	39	9.85	9.60
2-E-424A	12	45	9.85	9.60
2-E-425A	12	51	10.50	10.25

Harris Driveway and Farm Gates



This gate is made of 1½-inch outside diameter steel tubing, the upright brace in center is made of ¾-inch tubing in 10 and 12 foot lengths, and two upright braces in 14 foot lengths. This prevents gate from spreading and makes them very rigid. In the construction of the frames of this gate, high carbon steel tubing is used.

We also place a No. 8 Galvanized Wire diagonally across the frame to strengthen it. Complete, with hinges, latches and all necessary fittings to hang on wood posts. Hinges are adjustable and can be placed at any point on the gate, so that you can adjust them up or down, thereby allowing your gate to swing freely above ice or snow. Frame is covered with our Harris Square Mesh Fence as shown on preceding pages. All wires are heavily galvanized so as to prevent rust or corrosion.

Number	Width feet	Height inches	Price, each
2-E-200	10	54	\$ 6.75
2-E-201	12	54	8.50
2-E-202	14	54	9.00
2-E-203	16	54	10.25

Extra-Strong Farm Gates

Our Atlas Farm Gate is one of the strongest gates on the market. The frame is made of best quality wrought iron pipe, 1½ inches outside diameter, and the two upright braces are 1½ inches. The frame is braced diagonally with a ¾-inch steel rod, which prevents sagging. The No. 9 galvanized wire is closely woven to turn pigs and chickens. The frame and braces are painted black; fitted with a strong set of hinges and an automatic latch. Prices are F. O. B. factory in Central Indiana.

No.	Width	Height	Weight	Price
2-E-213	10 feet	54 inches	105 pounds	\$ 8.80
2-E-214	12 feet	54 inches	120 pounds	10.50
2-E-215	14 feet	54 inches	135 pounds	11.00
2-E-216	16 feet	54 inches	150 pounds	11.90

Harris Woven Wire Lawn Fencing

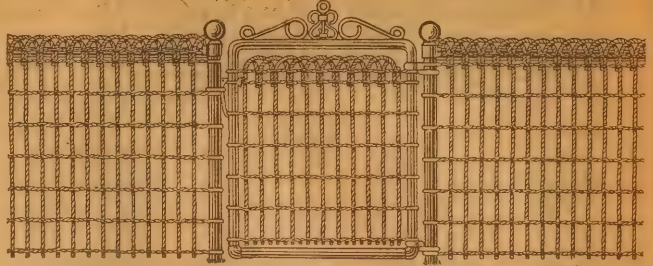
Made of Heavy Galvanized Wire

Harris Woven Wire Fencing is made of the best grade of galvanized wire. The design is plain and substantial, as shown in the cut above. This is a fence that will be suitable in any surroundings, harmonizing well on any lawn. Can be used with either steel or wood posts.

Uprights are made of No. 9 heavy galvanized wire, crimped the entire length. Cabled line wires are of heavy galvanized wire, with stays between the uprights $2\frac{1}{4}$ inches. Cables are spaced 6 inches apart, except the top wire, which is spaced $2\frac{3}{4}$ inches. We can furnish same to you in the following sizes:

2-E-428.	24 inches high.	Per lin. ft.	7c
2-E-429.	30 inches high.	Per lin. ft.	8c
2-E-430.	36 inches high.	Per lin. ft.	9c
2-E-431.	42 inches high.	Per lin. ft.	10c
2-E-432.	48 inches high.	Per lin. ft.	11c

The above fencing can be furnished in any continuous length up to 300 feet. We can furnish gates for the above, same as listed under style B-100.

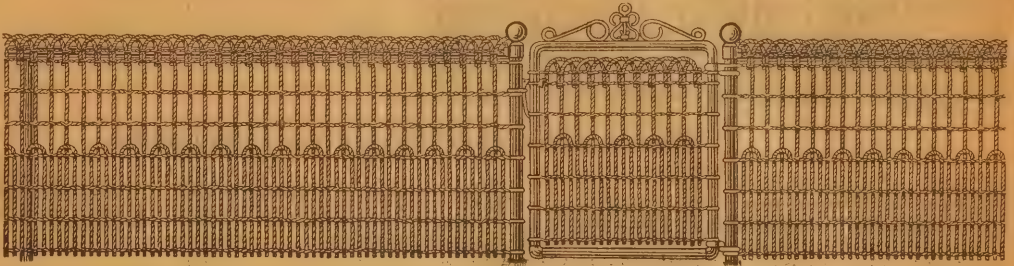


Harris Ornamental Lawn Fencing

This style, B-600, differs from our 429 in that we weave in an additional picket at the bottom, adding to the beauty of the design and also giving additional strength to the fence. It will stand use and abuse and the wear of time to the limit of reasonable expectation. The space at the bottom closes to $1\frac{1}{2}$ inches.

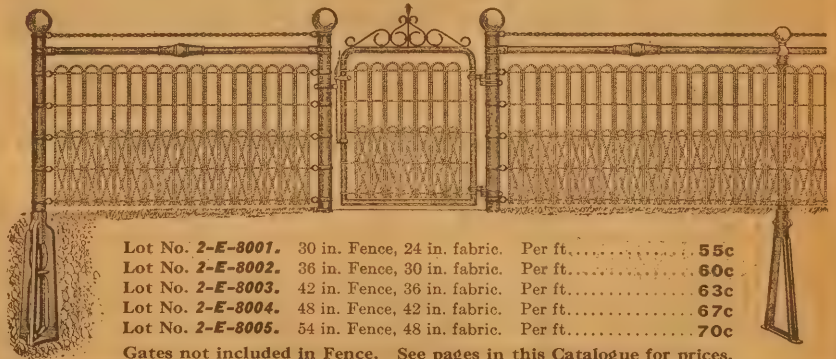
Uprights, No. 9 galvanized wire, crimped the entire length; cables, No. 12 $\frac{1}{2}$, heavily galvanized with space between the uprights at the bottom of $1\frac{1}{2}$ inches; at the top, $2\frac{3}{4}$ inches. The cables are spaced 6 inches apart, except the top space of $2\frac{3}{4}$ inches.

Height of fabric, inches.	24	30	36	42	48	54	60
2-E-404. Price, per lineal foot.	10c	11c	12c	14c	17c	20c	23c



Harris Boulevard Complete Lawn Fence

We use our "Harris" Boulevard Lawn Fence for the filler in this beautiful Fence. The railing and posts are made of heavy Tubular Steel. The end, corner and gate posts measure $1\frac{1}{4}$ inches in diameter. The Posts are fitted with beautiful cast iron bases at the bottom and are mounted on the top with beautiful white enameled ball-shaped ornaments. All fittings are highest grade malleable iron. Handsome 4-ply Braided wire is stretched above the top railing, adding a neat and artistic finish to the Fence. Average weight of Fence, 8 $\frac{3}{4}$ pounds to the foot.



Lot No. 2-E-8001.	30 in. Fence, 24 in. fabric.	Per ft.	55c
Lot No. 2-E-8002.	36 in. Fence, 30 in. fabric.	Per ft.	60c
Lot No. 2-E-8003.	42 in. Fence, 36 in. fabric.	Per ft.	63c
Lot No. 2-E-8004.	48 in. Fence, 42 in. fabric.	Per ft.	67c
Lot No. 2-E-8005.	54 in. Fence, 48 in. fabric.	Per ft.	70c

Gates not included in Fence. See pages in this Catalogue for prices.

Ornamental Lawn Gates

The frame is made of $1\frac{1}{4}$ inch, full weight, stiff, high carbon steel tubing, nicely painted. The gate is filled with our "Harris" Ornamental Lawn Fence fabric. All gates furnished complete with heavy malleable iron hinges for wood and a strong automatic latch of improved pattern. These gates can be used for any purpose where a walk gate is required. In ordering gates, be particular to state kind of fittings desired—whether for wooden or steel posts. All gates are made to fit openings. By openings we mean total distance between posts. In ordering ornamental gates, specify dimensions in the following rotation: Height of gate, width of opening. Note the following prices:

If wanted for iron posts, give diameter of posts and add \$1.50 to prices of gates.

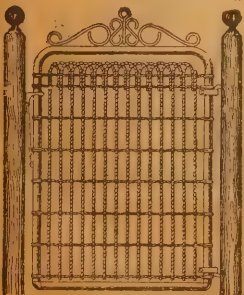
Single Gates—Up to and including 48 inches high

2-E-405.	3 ft. opening.	\$3.00	2-E-411.	6 ft. opening.	\$5.35
2-E-406.	3 $\frac{1}{2}$ ft. opening.	3.55	2-E-412.	7 ft. opening.	5.90
2-E-407.	4 ft. opening.	3.75	2-E-413.	8 ft. opening.	6.75
2-E-409.	5 ft. opening.	4.75	2-E-414.	10 ft. opening.	8.00
			2-E-415.	12 ft. opening.	9.25

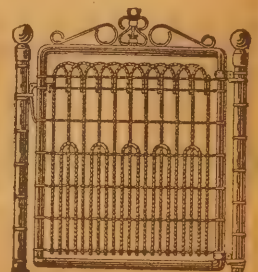
Double Gates—Up to and including 48 inches high

2-E-416.	8 ft. opening.	\$ 7.75	2-E-419.	14 ft. opening.	\$11.25
2-E-417.	10 ft. opening.	9.25	2-E-420.	16 ft. opening.	13.00
2-E-418.	12 ft. opening.	10.25			

Above ornamental lawn fence weighs from 2 to 5 lbs. per lineal foot, depending upon height and style of fence. Gates, size 3x3 ft., weigh about 20 lbs. each. Gates with 10 to 12 foot openings weigh from 60 to 100 lbs., depending upon height and style.



Style E-100



Style E-600

Harris Twin Post Cemetery Arch



Nothing can be more appropriate for a roadway into a Cemetery than one of our beautiful Arches with the name of the Cemetery in beautiful White Enameled letters printed across the top.

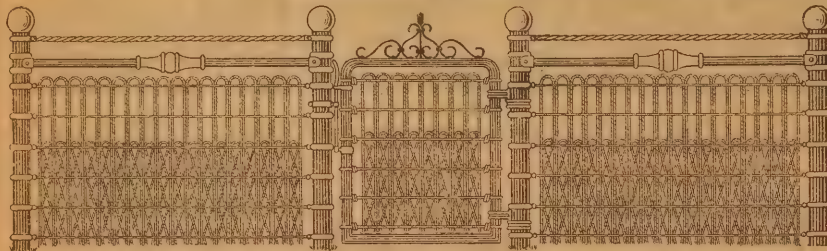
The "Harris" Twin Post Cemetery Arch is made up with two upright posts on each side, measuring $1\frac{1}{4}$ inches in diameter. These posts are placed 12 inches apart. The spaces between, divided into vertical sections by short pieces of pipe which act as braces to the posts. These vertical sections are filled with neat and attractive scroll work.

The "Top" of the "Harris" Arch is mounted with a beautiful scroll pattern and is filled with one of our most beautiful designs of Ornamental Wire Fabric. We also place in the corners beneath the top an elegant pattern of scroll work. Each post is fitted with a heavy cast iron base and neat white enameled Ornament on the top. We put the name of your Cemetery on the top of the Arch in beautiful White Enameled Letters, without additional cost.

2-E-9501. Harris Twin Post Cemetery Arch..... **\$72.00**

For \$24.00 additional, we will send an Arch with upright posts $2\frac{1}{2}$ inches in diameter. The price quoted is for driveway 8, 10 and 12 ft., but does not include the gates. For prices on Gates, see pages in this Catalogue.

Harris Cemetery Grave Lot Enclosure

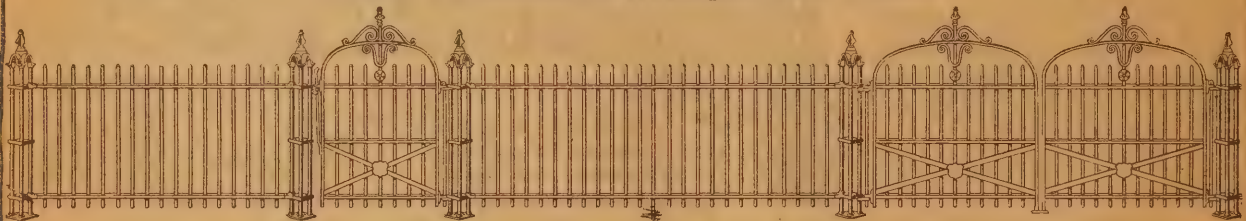


Beautiful and protect your Burial Lot with Ideal Grave Lot Enclosure; regardless of whether or not the Cemetery is fenced. Adds wonderfully to the appearance of your burial lot and general surroundings.

We use the same posts, railing, fabric and fittings as described in our "Harris Premier" Ornamental Fence. This Fence is made in one height only, 36-inch, filled with a 30-inch fabric, making a very practical enclosure. The highest grade of galvanizing is used in the manufacture of this Fence—will outwear many of the higher priced fences. Prices below include one walk gate, 3 ft. wide.

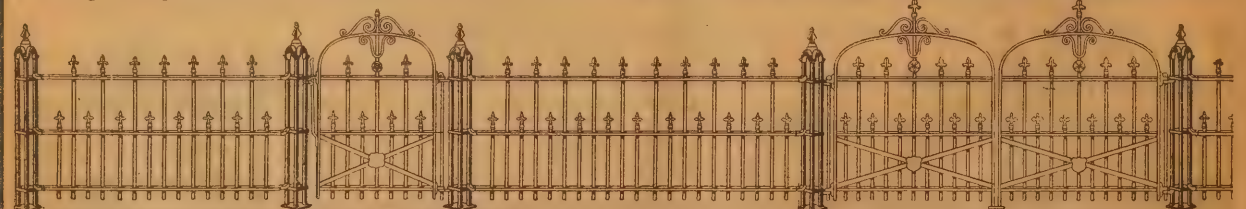
Lot No. 2-E-9121. 8x10 ft. enclosure, 36 in. high.....	\$21.60	Lot No. 2-E-9171. 10x12 ft. enclosure, 36 in. high.....	\$26.40
Lot No. 2-E-9141. 8x15 ft. enclosure, 36 in. high.....	27.60	Lot No. 2-E-9181. 10x15 ft. enclosure, 36 in. high.....	30.00
Lot No. 2-E-9161. 8x20 ft. enclosure, 36 in. high.....	33.60	Lot No. 2-E-9191. 20x20 ft. enclosure, 36 in. high.....	48.00

Harris Ornamental Wrought Iron Fence



	Picket	Spaced Apart	Size of Chan. Rail	Height	Price	Height	Price	Height	Price	Height	Price	Height	Price
2-E-1062	$\frac{3}{8}$ in.	4 in.	$1\frac{1}{4} \times \frac{1}{2}$ in.	37 in.	.....	42 in.	.....	48 in.	.....			
2-E-1066	$\frac{1}{2}$ in.	4 in.	$1\frac{1}{4} \times \frac{1}{2}$ in.	37 in.	.....	42 in.	.....	48 in.	.....			
2-E-1068	$\frac{5}{8}$ in.	5 in.	$1\frac{1}{2} \times \frac{1}{2}$ in.	37 in.	.....	42 in.	.....	48 in.	.....	54 in.	.....	60 in.	.....
2-E-1070	$\frac{3}{4}$ in.	5 in.	$1\frac{1}{2} \times \frac{1}{2}$ in.	37 in.	.....	42 in.	.....	48 in.	.....	54 in.	.....	60 in.	.....

Send diagram of space to be inclosed. Indicate where posts and gates are to be placed. We will figure your exact requirements and quote lowest prices.



	Size, Picket	Pickets Spaced	Size of Channel Rail	Height	Price	Height	Price	Height	Price
2-E-1001	$\frac{3}{8}$ in.	4 in.	$1\frac{1}{4} \times \frac{1}{2}$ in.	37 in.	.....	42 in.	.....	48 in.	.....
2-E-1005	$\frac{1}{2}$ in.	4 in.	$1\frac{1}{4} \times \frac{1}{2}$ in.	37 in.	.....	42 in.	.....	48 in.	.....

The above prices are for lineal foot, including line posts.

Corner, end and gate posts are extra.

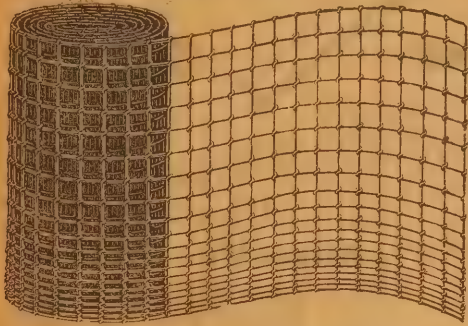
Extra for corner, end and gate posts, 37 ins., 42 ins., 48 ins., 54 ins., 60 ins.,

When figuring cost of Fencing, measure full opening, including gates corner, end and gate posts, then add each for single gates, 3 ft. 2 in. wide each for double gates, 8 ft. 2 in. wide, and extras for posts as shown above

FENCING SPECIALS!

This field and poultry fencing offered at the low prices shown below represents the accumulation of leading fence factories' stocks of fencing that show minor defects. These defects though slight, prevent us from offering this as first class fencing. They consist in slight discolorations and an occasional manufacturing defect such as a loose wire. We guarantee this fencing to be good value for the price quoted.

Galvanized Poultry Fencing



Extra Heavy Weight

Extra heavy weight, close mesh, made of highest quality galvanized wire, 10 gauge top wires, 10 gauge bottom wires, 12 1/2 gauge stay and line wires. Stay wires spaced six inches apart.
2-E-5080. 48 ins. high, 19 cross wires. Price per rod. **50c**
 60 ins. high, 22 cross wires. Price per rod. **60c**

Heavy Weight Fence

Made of highest quality galvanized wire, 11 gauge top wires, 12 gauge bottom wires, 14 gauge stay and line wires. Stay wires spaced six inches apart.
E-5100. 36 ins. high, per rod. **35c**
 48 ins. high, per rod. **40c**
 60 ins. high, per rod. **48c**

Standard Weight Poultry Fence

Made of highest quality galvanized barbed wire. Top and bottom wires 12 1/2 gauge. Stay and line wires 15 1/2 gauge. Stay wires spaced 6 ins. apart.
2-E-5111. 72 ins. high, 25 cross wires. price per rod. **50c**

Galvanized Barbed Wire



In Reels
Containing 80 Rods

\$2⁶⁵

Galvanized Barbed Wire put up 80 rods to the reel, made of 14 gauge heavy Galvanized Open Hearth Steel Wire.

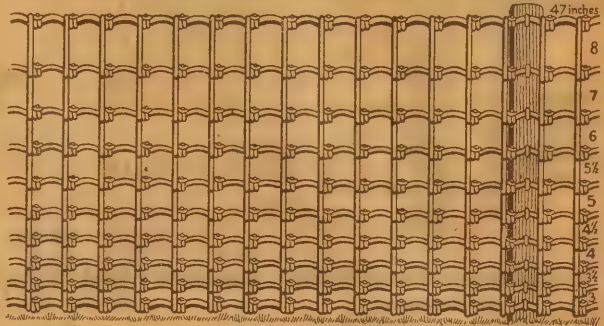
2-E-11. 2 point Galvanized Barbed Wire with barbs 5" apart, per 80 rod reel. **\$2.65**
2-E-13. 2 point Galvanized Barbed Wire with barbs 3" apart, per 80 rod reel. **\$2.90**

Gilden Pattern—Heavy Weight Galvanized Barbed Wire

Made of 12 gauge Open Hearth Steel heavy Galvanized Wire, put up on reels containing 80 rods. Can be supplied in either Hog or Cattle Wire, with 2 or 4 point barbs.

2-E-30. 2 point Galvanized Barbed Wire with barbs spaced 5" apart, per reel. **\$3.75**
2-E-31. 2 point Galvanized Barbed Wire with barbs 3" apart, per 80 rod reel. **\$4.00**
2-E-32. 4 point Galvanized Barbed Wire with barbs 5" apart, per 80 rod reel. **\$4.05**
2-E-33. 4 point Galvanized Barbed Wire with barbs 3" apart, per reel. **\$4.25**

Galvanized Field Fencing



All 9 Gauge Fence

No. 2-E-5040. Stay Wires 6 in. Apart				No. 2-E-5045. 12 in. Apart	
Height Inches	Number of Line Wires	Weight of 100 Rods	Price Per Rod	Weight of 100 Rods	Price Per Rod
26	7	1283	40c	976	30c
36	8	1503	48c	1135	33c
39	9	1739	56c	1300	40c
47	10	1930	64c	1474	45c
56	11	2257	70c	1655	50c

9 and 11 Gauge Fence

No. 2-E-5050. Stay Wires Spaced 6 in. Apart				No. 2-E-5055. 12 in. Apart	
Height Inches	Number of Line Wires	Weight of 100 Rods	Price Per Rod	Weight of 100 Rods	Price Per Rod
26	7	883	32c	695	22c
32	8	1023	38c	797	25c
39	9	1174	41c	904	31c
47	10	1355	48c	1016	33c
56	11	1506	55c	1133	40c

Fence Posts



Strongest
Most Durable
Fence Posts
on the Market

20c

Up Each

2-E-317. Made of heavy steel tubing, 2 in. in diameter, pointed for easy driving. Fitted with adjustable, heavy galvanized wire clamps which encircle the post and securely hold the wire in place. Weight, 2 lbs. per foot of length.

Length	Clamps Furnished	Price Each
4 foot	2	20c
5 foot	3	25c
6 foot	4	30c
7 foot	5	35c
8 foot	6	40c

Mixed Wire Nails

\$1⁸⁵ Per 100 lb. Keg

A splendid assortment of brand new wire nails in the sizes that you use every day. Indispensable about the home, workshop and farm. The same quantities bought at retail would cost you double this price. Don't forget to include this bargain with your order.
2-E-4055. 100-lb. keg of mixed nails, 3d to 40d.

Price. **\$1.85**



Galvanized Wire

2-E-984. New galvanized wire, put up 100 lbs. in a bundle, consisting of shorts or mill ends accumulated from regular galvanized fencing wire, varies in length from 50 ft. to 200 ft. and is sorted one gauge to the bundle.
 8 gauge, per 100 lbs. **\$3.25**
 9 gauge, per 100 lbs. **3.25**
 10 gauge, per 100 lbs. **3.30**
 11 gauge, per 100 lbs. **3.35**
 12 gauge, per 100 lbs. **3.40**
 13 gauge, per 100 lbs. **3.50**
 14 gauge, per 100 lbs. **3.60**



\$3²⁵
Per 100 Pounds

Crimped Wire for Reinforcing



2-E-986. Crimped wire for Reinforcing. Strengthen your concrete work by using crimped wire for reinforcing. We can furnish this material made up of No. 9 gauge wire, crimped, and cut to any length you wish up to 20 feet. Wire is made of open hearth steel, heavily galvanized. Specify length of wire required when ordering. Put up in 100-lb. bundles.
 Sale Price 100 lbs. **\$4.25**

Wire Products and Accessories



\$6.00

Simple Durable and Economical

Perfection Wire Stretcher

Shows the single Fence Stretcher and manner of attaching to posts and fence. The wonderful power, simplicity of action and ease of operation of this stretcher have made it very popular. They lock automatically at every half turn of the lever and never slip. The metal parts are of the highest quality steel and malleable iron and the clamps of selected hard wood. The chain is long enough for a pull of nine feet. The double stretcher is identically the same as the single one with the exception that it has two chains and two stretchers on the one set of wood clamps.

2-E-210. "Perfection" stretcher, single weight, 75 lbs. \$6.00

2-E-211. "Perfection" stretcher, double weight, 150 lbs. \$11.90

Three Tools in One!

75c



Perfection Wire Splicer Staple Puller and Hammer

This is a wire splicer, staple puller, and hammer combined, not to mention all the other uses around the house and barn and one of the handiest tools you can have about farm. It is not only the best, but the only combination tool of its kind. Made of high grade malleable iron, and is very strong and durable.

2-E-209. Price, each...

75c

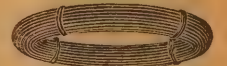
Perfection Wire Grip



A very handy tool for tightening loose wire. Can be attached to a bar and strong leverage secured. Fitted with swivel.

2-E-53. Price, each... 33c

Brace Wire



The Brace Wire we offer is of No. 9 gauge and is drawn from Soft Open Hearth Steel. It twists nicely. In each coil there is about enough wire for three good braces.

2-E-203. Price per coil of 10 pounds. 40c

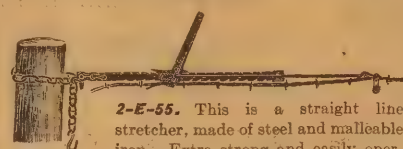
Tackle Block Wire Stretcher



Fitted with an automatic lock or clasp. Disengaged by a slight movement of the hand rope. Can also be used as a safety hoist, with which any man can lift 500 pounds. Furnished complete with 16 1/2 feet of 3/8-inch pure manila rope.

2-E-56. Price, each... \$1.15

Ratchet Steel Wire Stretcher With Rod



2-E-55. This is a straight line stretcher, made of steel and malleable iron. Extra strong and easily operated. Furnished complete with 2 feet of steel chain. Price, each...

75c

Barbed Wire Stretcher

The most convenient and easily operated for stretching short runs of either woven or barb wire fencing. When stretching woven or poultry wire with 3/4-inch iron pipe 5 foot in length, fasten ends about pipe as shown in cut. For stretching long runs of heavy woven wire fencing the "Harris" Stretcher is highly recommended.

2-E-60. Price... \$2.80

Screen Wire!



2-E-49. Our Galvanized screen wire is made by an entirely new process and is better rust-resistant than the ordinary bright wire, as it possesses remarkable rust-defying qualities. It is not affected by moisture or salt sea air, and if given proper care, will last years and years.

Our Galvanized Screen Wire is put up in rolls of 25, 50 and 100 running or lineal feet, 12 wires to the inch each way.

Width Inches	Wt., per 100 lin. ft.	25 ft. Rolls	50 ft. Rolls	100 ft. Rolls
24	19	\$1.65	\$3.30	\$6.00
26	21	1.80	3.58	6.50
28	23	1.95	3.85	7.00
30	24	2.10	4.13	7.50
32	24	2.20	4.40	8.00
34	32	2.35	4.68	8.50
36	36	2.48	4.95	9.00
42	42	2.90	5.78	10.50
48	48	3.30	6.60	12.00

Staples

Fence staples, made of No. 9 gauge, put up regularly 100 lbs. to the keg. There are 120 1-in. staples to a lb., 100 1 1/4-in. staples to a lb. Prices as follows in keg lots:

2-E-35. 1-inch long, per 100 lbs. \$4.75

1 1/4-in. long, per 100 lbs. 4.75

Furnished in smaller quantities as follows:

10 lb. pkg. Each... **\$0.55**
20 lb. pkg. Each... **1.10**
50 lb. pkg. Each... **2.50**

Poultry Netting Staples

Made of No. 14 gauge. There are 230 1-in. staples to a lb.

2-E-36. 1 in. long, in keg lots per 100 lbs. \$7.35

Furnished in smaller quantities as follows:

5 lb. pkg. each... **40c**
10 lb. pkg. each... **80c**

Window Guards!

2-E-4030. Guard against burglars and protect your windows. Our diamond mesh crimped wire window guards, with round iron rod frame, we quote as follows: These prices apply to guards containing 8 sq. ft. or more. Write for prices on smaller guards.



Size Mesh Inches	Gauge of Wire	Diameter Frame Inches	Price Per Sq. Ft.
3/4	14	1 1/4	33c
1	14	1 3/4	31c
1 1/4	12	2 1/4	33c
1 1/2	14	2 3/4	27c
1 3/4	12	3 1/4	28c
2	12	3 3/4	29c
2 1/4	10	4 1/4	30c
2 1/2	8	4 3/4	34c
3	12	5 1/4	31c
3 1/4	10	5 3/4	33c
4	12	6 1/4	27c
4 1/4	10	6 3/4	28c
4 1/2	8	6 3/4	34c
5	10	7 1/4	27c
5 1/4	8	7 3/4	34c
6	10	8 1/4	27c
6 1/4	8	8 3/4	34c

Black Screen Wire

2-E-48. Painted Screen Wire, put up in rolls of 50 and 100 running or lineal feet and measures each way 12 wires to the inch.

Width, Inches	Weight, per 100 lineal feet	50 ft. rolls	100 ft. rolls
24	19	\$2.70	\$5.40
26	21	2.95	5.85
28	23	3.15	6.30
30	24	3.40	6.75
32	32	3.60	7.20
34	34	3.80	7.65
36	36	4.05	8.10
42	42	4.75	9.45
48	48	5.40	10.80

Galvanized Wire Cloth

This cloth is generally known as hardware cloth, used for window guards, cages, fruit evaporators, screens and places where a heavy screen is needed. Furnished in the following sizes:



Number	Width Inches	Gauge	Mesh to Inch	Per 100 Lineal Ft.	Per Lineal Ft.
2-E-50	24	23	4 mesh to 1 in.	\$15.00	17c
2-E-51	30	23	4 mesh to 1 in.	18.75	20c
2-E-52	36	23	4 mesh to 1 in.	22.50	24c
2-E-53	24	19	2 mesh to 1 in.	13.50	15c
2-E-54	30	19	2 mesh to 1 in.	16.88	19c
2-E-55	36	19	2 mesh to 1 in.	20.25	22c

Block and Tackle

"T" Beam Trolley



A simple and practical "T" Beam Trolley with steel side plates, anti-friction bearings adjustable to three sizes of "T" Beams.

Lot No.	Cap. Tons	Sizes of I-Beam	Wt. Lbs.	Price, Each
2-E-11559	1/2	5-6-7	25	\$18.90
2-E-11560	1	6-7-8	40	21.60
2-E-11561	1 1/2	7-8-9	80	25.65
2-E-11562	2	8-9-10	120	29.70
2-E-11563	3	9-10-12	135	36.45
2-E-11564	4	10-12-15	140	44.55
2-E-11565	5	12-15-18	310	58.00



TRIBLOC Chain Hoist

2-E-11613. These splendid hoists are of strong compact construction. Designed for all classes of work. Steel working parts and patented loop hand-chain guide which protects the hoist and controls the hand chain at all speeds of travel. Hand chain will not buckle in guide or over-ride flanges of the hand wheel. Fastest lifting hand hoist produced.

Cap. Tons	Wt. Lbs.	Lift Feet	Price, complete
1/2	60	8	\$ 52.00
1	70	8	67.00
1 1/2	80	8	90.00
2	90	9	105.00
3	100	10	135.00
4	110	10	165.00
5	120	12	210.00
6	130	12	247.00
8	140	12	280.00
10	150	12	336.00

Single

Double

Triple



Becket

Wood Shell Tackle Blocks

Manila Rope. These blocks are of the best possible construction. Have special chilled steel pins and iron sheaves with edges properly rounded to prevent the rope from fraying.

We can furnish these blocks either with or without becket. When used in pairs, one should be plain and the other with becket.

2-E-11701. Without becket. **2-E-11702.** With becket.

Diam. Rope, Inches	Length of Shell, Inches	Single Pulley	Double Pulley	Triple Pulley
3/4	3	\$0.48	\$0.90	\$ 1.20
1	4	.60	1.08	1.47
1 1/4	5	.72	1.20	1.65
1 1/2	6	.84	1.35	1.80
1 3/4	7	.96	1.50	2.00
2	8	1.12	1.68	2.24
2 1/4	10	1.40	2.10	2.80
2 1/2	12	1.68	2.52	3.36
2 3/4	14	1.96	2.94	3.92
3	15	2.24	3.36	4.48

Single

Double

Triple



Steel Tackle Blocks

Are made with forged steel hooks, straps, pins and shells. For manila rope.

2-E-11704. Without becket. **2-E-11705.** With becket.

Diam. Rope, Inches	Length of Shell, Inches	Single Pulley	Double Pulley	Triple Pulley
3/4	3	\$0.48	\$0.90	\$ 1.20
1	4	.60	1.08	1.47
1 1/4	5	.72	1.20	1.65
1 1/2	6	.84	1.35	1.80
1 3/4	7	.96	1.50	2.00
2	8	1.12	1.68	2.24
2 1/4	10	1.40	2.10	2.80
2 1/2	12	1.68	2.52	3.36
2 3/4	14	1.96	2.94	3.92
3	15	2.24	3.36	4.48

Steel Snatch Blocks



STEEL SNATCH BLOCKS

2-E-11709.	Size of Diam. Lgth.	Sheave Rope Shell Price
3 x 1 1/4	1 1/2	\$4.40
3 1/2 x 1 1/4	1 1/2	5.25
4 x 1 1/4	1 1/2	6.25
5 x 1 1/4	1 1/2	7.50
6 x 1 1/4	1 1/2	9.25
8 x 1 1/4	1 1/2	11.00
10 x 1 1/4	1 1/2	14.50
12 x 1 1/4	1 1/2	19.00

STANDARD WOOD SHELL IRON STRAPPED SNATCH BLOCKS

2-E-11707.	Size of Diam. Lgth.	Sheave Rope Shell Price
3 x 1 1/4	1 1/2	\$3.00
3 1/2 x 1 1/4	1 1/2	4.35
4 x 1 1/4	1 1/2	5.10
5 x 1 1/4	1 1/2	6.40
6 x 1 1/4	1 1/2	7.50
8 x 1 1/4	1 1/2	9.75
10 x 1 1/4	1 1/2	12.75

Screw Chain Hoist

2-E-11715. These hoists are powerful and compact. They are extensively used for all classes of work. They are much easier to operate than the Differential Hoist, inasmuch as they are geared up. The gearing is enclosed in oil tight housing and the working parts are thus always immersed in oil, insuring smooth action and thorough lubrication.

Cap. Tons	Wt. Lbs.	Lift Feet	Price, complete
1/2	50	8	\$ 37.00
1	60	8	45.00
1 1/2	76	8	60.00
2	125	9	75.00
3	190	10	112.00
4	210	10	142.00

The Fastest Chain Hoist Made

Special Prices on Sizes up to 10 Tons

Weston Differential Chain Hoist

2-E-11783. Tested to full weight before shipment. This is the simplest and cheapest type of chain hoist, and has the fewest parts of any hoist made. The chains are specially made, are finely finished and carefully hardened to prevent wear. This hoist will hold a load at any point. Each hoist is guaranteed fully in every particular.

Cap. Tons	Will Lift, feet	Price, comp.
1/2	7	\$15.00
1	8	21.00
1 1/2	8 1/2	27.00
2	9	33.00
3	10	45.00

Four feet of extra Chain required for every foot of extra lift.

Safety Lifts

These Burr Steel Lifts are thoroughly practical and are much less expensive than the chain hoists.

2-E-11717. Size No. 3, for 3/8-inch rope. One man can hoist 300 lbs. Double lower block, weight, 4 1/2 lbs. Capacity, 800 lbs. Price.....**\$1.70**

2-E-11719. For 1/2-inch rope. One man can hoist 350 lbs. Double lower block, weight, 6 1/2 lbs. Capacity, 1,500 lbs. Price.....**\$3.15**

2-E-11721. For 5/8-inch rope. One man can hoist 400 lbs. Double lower block, weight, 11 lbs. Capacity, 2,000 lbs. Price.....**\$4.00**

2-E-11723. For 3/4-inch rope. One man can hoist 450 lbs. Double lower block, weight, 17 lbs. Capacity, 2,500 lbs. Price.....**\$4.85**

2-E-11725. For 7/8-inch rope. One man can hoist 600 lbs. Triple lower block, weight, 10 lbs. Capacity, 3,000 lbs. Price.....**\$5.70**

2-E-11727. For 1-inch rope. One man can hoist 700 lbs. Triple lower block, weight, 20 lbs. Capacity, 3,500 lbs. Price.....**\$6.85**

2-E-11729. For 1 1/4-inch steel rope. One man can hoist 850 lbs. Triple lower block, weight, 28 lbs. Capacity, 5,000 lbs. Price.....**\$7.95**

Wire Rope Blocks

2-E-11771. These blocks are specially designed to be used in connection with wire hoisting rope, having large sheaves.

You cannot use the wood and iron shell manila rope tackle blocks in connection with the wire rope owing to the fact that the sheaves are too small to permit the wire rope running freely over them.



Dia. of Shv.	For Rope Ins.	Single Price Each	Double Price Each	Triple Price Each
10	1/2	\$10.00	\$15.00	\$20.00
14	3/4	14.00	19.00	26.00
16	7/8	16.00	22.00	30.00

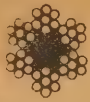
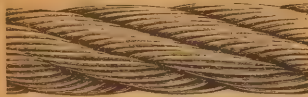
Turnbuckles



These Turnbuckles are considered the best on the market. Are made of wrought iron, painted black. We have them in stock and can furnish promptly.

Lot No.	Diam. of Thread	Lgth. of Thread	Price Each Black	Price Each Galv.
2-E-11547	3/16	3 1/2	\$0.45	\$0.57
2-E-11548	1/4	4	.48	.60
2-E-11549	5/16	4 1/2	.50	.65
2-E-11550	3/8	4 1/2	.72	.90
2-E-11551	7/16	5 1/4	.85	1.10
2-E-11552	1/2	6	.95	1.20
2-E-11553	5/8	9	1.40	1.75
2-E-11554	3/4	9	1.90	2.40
2-E-11555	7/8	12	3.25	4.05
2-E-11556	1	12	4.00	5.00

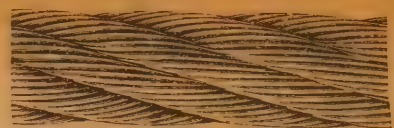
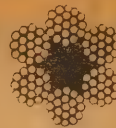
Steel Cable—Jacks



Swedish Transmission or Haulage Rope

2-E-11605. Composed of six strands, hemp center, each having 7 wires. This rope is used principally for transmission of power over large sheaves or drums. This rope is not flexible enough to be used over small sheaves or drums. Note minimum diameter of drums or sheave in table below. Subject to quantity on hand.

Diameter - Inches	Weight per 100 ft. in lbs.	Approx. break strain in Tons of 2,000 lbs.	Min. diam. of drum or sheaves in feet	Price per ft.
22	4.8	2 1/2	5	\$0.05 1/2
39	8.4	3 1/2	6	.08
62	13.2	4 1/2	7	.12
89	18.6	6	8	.17
1.20	24	7		.22
1.58	32	8		.29



Standard Wire Hoisting Rope

Made up of six strands, 19 wires to the strand, laid around a hemp center. **SWEDISH IRON ROPE.** Is used for hay presses, hoisting and all general purposes.

CRUCIBLE STEEL ROPE. Is much stronger and is used in mines, on derricks and for any kind of hoisting work where a strong rope is required.

2-E-11601. Swedish Iron Rope				2-E-11603. Crucible Steel Wire Rope			
Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2,000 lbs.	Price per ft.	Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2,000 lbs.	Price per ft.
1/4	0.10	1.10	\$0.06 1/4	1/4	0.10	2.2	\$0.09
5/16	0.22	2.4	.07	5/16	0.22	4.8	.09
3/8	0.39	3.9	.08	3/8	0.39	8.4	.11
7/16	0.62	6.5	.12	7/16	0.62	12.5	.13
1/2	0.89	11.8	.16	1/2	0.89	17.5	.15
5/8	1.20	18.6	.20	5/8	1.20	23	.24
3/4	1.58	24	.26	3/4	1.58	30	.30
7/8	2.00	32	.33	7/8	2.00	38	.36

New Galvanized Wire Strand



2-E-11611. This strand is composed of 7 wires, twisted into a single strand. Is used for guys on smoke stacks, telegraph and telephone poles and many other purposes.

Diam. Inches	Approx. Strength in lbs.	Weight per 100 ft. lbs.	Price per 100 ft.
1/4	2300	13	\$1.60
5/16	5000	30	3.20
3/8	8500	52	5.00

Used Galvanized Wire Strand

3/8 in., approx. diam. Price, per 100 ft. \$1.50
1/2 in., approx. diam. Price, per 100 ft. 2.50

Used Wire Rope for Hoisting

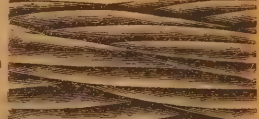
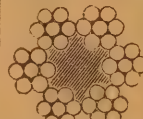
Nineteen Wires to the Strand. Six Strands. Laid Around Hemp Center.



2-E-11525. This rope is particularly adapted for service in mines, for logging on elevators, derricks, hay presses and hoists of all kinds.

Diam. Inches	Weight per ft. in pounds	Price, per ft. selected second hand rope
1/4	0.39	4c
5/16	0.62	5c
3/8	0.89	9c
7/16	1.20	12c
1/2	1.58	16c
5/8	2.00	20c

Galvanized Iron Wire Rope



2-E-11613. For derrick guys, etc. Not suitable to run over drums or sheaves. Composed of 6 strands and hemp center, 7 wires to the strand.

Diam. Inches	Weight per ft.	Approx. breaking strain in tons of 2,000 lbs.	Price per ft.
1/4	0.20	1.8	\$0.05
5/16	0.36	3.2	.07
3/8	0.64	5.8	.09
7/16	0.91	7.3	.11
1/2	1.21	11	.15
5/8	1.44	13	.17

Iron Sheaves for Wire Rope



2-E-8999. These sheaves as priced below are used to run loose on the shaft. We cannot furnish them bored for larger sized shaft than specified, nor can they be fitted with set screws or key seated.

Diam. Sheave Inches	Length Through Hub Inches	Size of Hole for Shaft Inches	For Diam. Wire Rope Inches	Plain Bushed Price Each
5	1 1/2	5/8	3/4	\$0.70
6	1 1/2	3/4	3/4	.75
6	1 1/2	3/4	1 1/2	.75
8	1 1/2	1	1 1/2	1.75
8	1 1/2	1	1 1/2	1.75
10	1 1/2	1 1/4	1 1/2	2.25
10	1 1/2	1 1/4	1 1/2	2.65
12	1 1/2	1 1/2	1 1/2	3.00
12	1 1/2	1 1/2	1 1/2	3.00
14	1 1/2	1 1/2	1 1/2	4.25
14	2	1 1/2	1 1/2	4.75
14	1 1/2	1 1/2	1 1/2	4.25

Jack Screws

4-E-11519. The Bell Base of these Jack Screws is made of the toughest gray iron it is possible to obtain. The screws are wrought iron, lathe turned. Every Jack is tested and its carrying capacity is fully guaranteed. Levers are not furnished with the Jacks.



Diam. of screw inches	Height of stand inches	Lifting over all inches	Capac. Tons	Price Each
1 1/4	8	10 1/2	10	\$2.00
1 1/4	12	14 1/2	10	2.50
1 1/2	8	10 1/2	12	2.55
1 1/2	10	12 1/2	12	2.85
1 1/2	12	14 1/2	12	3.45
1 1/2	10	13 1/2	16	3.75
1 1/2	12	15	16	4.05
2	10	13 1/2	20	4.50
2	12	15 1/2	20	4.95
2	14	17 1/2	20	5.55
2	16	19 1/2	20	7.20
2 1/2	14	18	28	8.75
2 1/2	18	22	28	9.45
2 1/2	20	24	28	8.80

Ratchet Jacks

4-E-11521. Easily operated and can be used in close places. The stand of this Jack is made of tough gray iron and the screw is made of special steel with deep lath cut thread.



Diameter of Screw, 2 in., height over all, 23 in., lifting capacity, 25 tons. Price, each \$5.95

House Raising Jacks

4-E-11523. Cast iron, brand new. These screws are cast with Seamless Threads, which makes them very smooth and uniform.

Diam. Screw overall inches	Ht. overall inches	Price, Each
3	18	\$3.65
3	20	3.90
3	24	4.50
3	30	5.30
3	36	6.15



Wire Rope Clips

2-E-11503. These clips are used to make a loop of an eye at the end of a rope without splicing.

Black

Size for rope diam. in.	Price each
1/4	5c
5/16	6c
3/8	8c
7/16	11c
1/2	16c
5/8	21c
3/4	24c
7/8	40c
1	43c
1 1/8	65c
1 1/4	70c

Wire Rope Thimbles

Galvanized



No. 2-E-11511.

Size for rope diam. in.	Price each
1/4	3c
5/16	4c
3/8	6c
7/16	10c
1/2	12c
5/8	14c
3/4	17c
7/8	30c
1	33c
1 1/8	42c
1 1/4	50c

Patent Wire Rope

Hooks and Couplings

These hooks are made of malleable iron and can be bent cold. The cheapest and simplest fastening for rope manufactured.

Size, inches	Price each
2-E-11513. Fig. 3, Hook	30c 35c 45c
2-E-11515. Fig. 5, Ring	30c 35c 45c
2-E-11517. Fig. 6, Coupling	30c 35c 45c



Fig. 3



Fig. 5



Fig. 6

Wind Mills



Pumping Wind Mill

Every revolution of the wheel makes a stroke of the pump, which is very desirable where small cylinders are used and a good supply of water is desired. They pump rapidly, are easy to set up. All are ball bearing at both the thrust and bed plate. Wrist pins made of steel and have lock pins to prevent them working out. Pitmans have removable babbit bearings in each end. For a complete description of the wheel, wheel arms, rudder and rudder stem, read description under back geared mill. The only difference being in the curvature of the fans. Back geared wheels run faster than direct stroke and cannot be used on direct stroke mills.

All Premier Mills are Self Regulating. All bolts on the steel mills are galvanized and double nutted; the second nut acting as a lock-nut to prevent the other from working off. Always state what kind of a tower you will use.

4-E-1777. 8 ft. Direct Stroke, Galv. Steel Mill. Weight, 405 lbs. Price..... **\$42.50**

4-E-1774. 10 ft. Direct Stroke, Galv. Steel Mill. Weight, 520 lbs. Price..... **\$54.00**

4-E-1781. 12 ft. Direct Stroke, Galv. Steel Mill. Weight, 835 lbs. Price..... **\$88.00**

The above price does not include a side rudder.



Easy
Running
Noiseless
Powerful

Guaranteed
Easy
Running

Ball-bearing-Back Geared

Galvanized

The slats or fans are extra heavy, hard spring sheet steel. The arms and rims are made of high grade, round edgewise steel. The rudder is sheet steel bound with $\frac{1}{4}$ inch round iron. All parts of this mill are thoroughly galvanized coated. The shafts are cold rolled steel. All bearings not referred to as being ball bearings are babbit. The stroke is adjustable. No fragile springs or weak parts.

All Premier Mills are complete with bed plate, truing spider and reeling gear to put on tower to disconnected gear, also a wood pump rod and pull-out wire. They are equipped with chilled steel ball bearings on the main shaft between the main casting, the wheel and bed plate. These back geared mills have a small and large cog gear, so that they are extra well adapted for heavy work such as pumping water from deep wells or pumping to a tank in a tower.

4-E-1701. 6 ft. steel mill. Weight, 290 lbs. Price..... **\$33.00**

4-E-1703. 8 ft. steel mill. Weight, 425 lbs. Price..... **\$44.00**

4-E-1705. 10 ft. steel mill. Weight, 525 lbs. Price..... **\$64.00**

4-E-1707. 12 ft. steel mill. Weight, 890 lbs. Price..... **\$100.00**

Shipped from Factory near Chicago.



Direct Stroke
Wood
Wind Mill

The direct stroke wind mill is furnished with a side rudder as in the illustration. Aside from being lighter and made of wood it embodies all the principles of light running, noiseless windmills.

The slats in both the mill and rudder are yellow poplar. Wheel arms are tough second growth ash and rims are high grade bending oak. All of these parts have two coats of white lead except the arms, which are blue. Pitmans have babbit bearings throughout. It is very simple in construction and strongly built. The bearings on the main shaft are adjustable. These mills are equipped with governor weight and are self-governing. In ordering, state the kind of tower to be used, whether for 3 or 4 post, steel or wood.

4-E-1781. 8 ft. Weight, 380 lbs. Price..... **\$41.00**

4-E-1783. 10 ft. Weight, 485 lbs. Price..... **\$51.00**

4-E-1785. 12 ft. Weight, 725 lbs. Price..... **\$72.00**

Wind Mill Towers

Galvanized

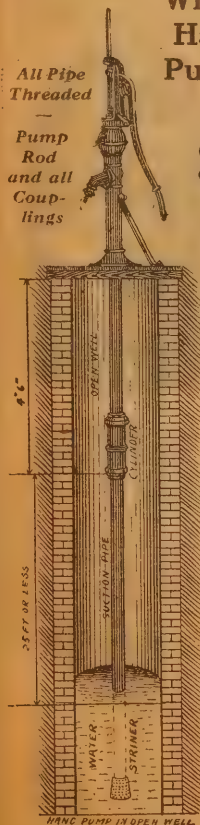
For
6 ft. - 18 ft.
10 ft. and 12 ft.
Wind
Mills

Wind Mill and Hand Force Pump Outfits

All Pipe
Threaded

Pump
Rod
and all
Couplings

\$14.00



In this outfit we offer you our best seller of above ground Force Pumps. **4-E-2365** Pump is built heavy and strong. The back outlet is tapped for 1 inch or $\frac{1}{4}$ inch Pipe, has a brass stuffing box, solid piston rod, revolving head. Intended for connecting with Heads. Extra long handle.

The spout is fitted for a $\frac{3}{4}$ inch hose. May be used in dug wells at 100 ft., if desired, by lowering the cylinder within 15 ft. of water. Cannot be used in driven well more than 25 ft. deep, as cylinder must be within 15 ft. of the water.

Complete outfit, consisting of Pump, 3x10 cylinder, $\frac{1}{4}$ inch galvanized Pipe, Pump Rod and Strainer.

4-E-2121. Outfit for 20 ft. well. Weight, 135 lbs. Price..... **\$14.00**

4-E-2123. Outfit for 30 ft. well. Weight, 180 lbs. Price..... **\$16.00**

4-E-2125. Outfit for 40 ft. well. Weight, 220 lbs. Price..... **\$18.00**

4-E-2127. Outfit for 50 ft. well. Weight, 250 lbs. Price..... **\$20.00**

4-E-2129. Outfit for 60 ft. well. Weight, 280 lbs. Price..... **\$22.00**

4-E-2131. Outfit for 75 ft. well. Weight, 325 lbs. Price..... **\$25.00**

Long, heavy sectional angle steel Corner Posts, properly sized, bolted at bottom to heavy cast iron anchor plates, which rest on the ground or made to set under the surface.

Angle steel bands brace the tower, graded in weight for maximum strength.

The Brace Rods are round iron, strengthened by the use of a bracer rod clamp where rods cross.

The Pump Rod Guide and Internal Brace. There are 4 rods coming from each corner to the center at each sectional brace. The pump rod works through the casting of the intersecting rod guides.

Special safety steel, securely bolted, ladder; tire side affair.

The Platform is strong and securely bolted to the tower. The galvanizing on these towers is done after every part is complete.

No. 1 Four-Post Galvanized Steel Towers.

4-E-1751. For 6 and 8 ft. Wind Mills.

	Wt. lbs.	Price
20 ft. No. 1, 4-post.....	335	\$23.30
30 ft. No. 1, 4-post.....	475	32.15
40 ft. No. 1, 4-post.....	639	46.85

No. 2 Four-Post Galvanized Steel Towers.

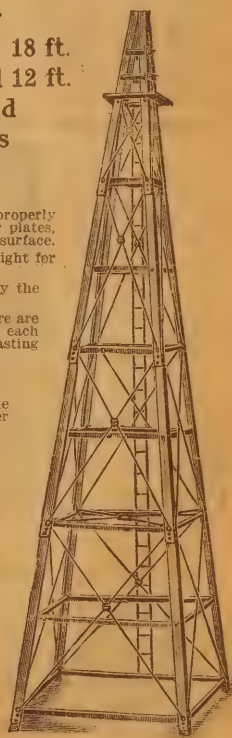
4-E-1753. For 8 and 10 ft. Wind Mills.

	Wt. lbs.	Price
20 ft. No. 2, 4-post.....	375	\$25.90
30 ft. No. 2, 4-post.....	600	35.75
40 ft. No. 2, 4-post.....	700	52.00
50 ft. No. 2, 4-post.....	900	71.50
60 ft. No. 2, 4-post.....	1210	98.00

No. 3, Four-Post Galvanized Steel Towers.

4-E-1755. For 10 and 12 ft. Wind Mills.

	Wt. lbs.	Price
20 ft. No. 3, 4-post.....	445	\$32.00
30 ft. No. 3, 4-post.....	635	43.85
40 ft. No. 3, 4-post.....	900	64.80
50 ft. No. 3, 4-post.....	1265	88.50
60 ft. No. 3, 4-post.....	1640	112.50



**FULL
WEIGHT**

STEEL TANKS

**GALVANIZED
STEEL**

Made of Full Weight U. S. STANDARD Gauge Galvanized Steel

LOW PRICES AND GUARANTEE.

We quote the lowest prices ever made.

QUALITY. We use only the best quality of galvanized steel sheets and guarantee full weight U. S. Standard gauge No. 20.

HOW MADE. All joints are lock seamed. This style of joint is considered the best possible construction, as there are four thicknesses of metal tightly joined.

COVERS. We can furnish flat covers at 30c per sq. ft. for any tank shown and the size of cover is obtained by multiplying the square of the tank. As an example, on a round tank 4 ft. in diameter a square would be 4x4 or 16 square feet. On round end tanks the square is figured by the length and width and longest and widest point.

CAPACITY. The capacity of tanks as shown in barrels is based on 31½ gallons to the barrel. In figuring the round end tanks no allowance has been made for the round corners, so these tanks will not hold quite as rated.

Round End Galvanized Steel Tanks



Made of No. 20 gauge galvanized steel guaranteed. Always shipped set up unless otherwise ordered. Sufficiently heavy for ordinary stock watering or storage purposes. Tanks made of No. 18 gauge steel, additional charge of 25 per cent.

BRACING. On tanks 6, 8 and 10 feet long we furnish one angle brace across the top and two on each side. On larger tanks there are two braces across the top and three on each side.

Prices are F. O. B. Factory, Northern Indiana.

No.	Wth. Ft.	Ht. Ft.	Lth. Ft.	Cap. Bbls.	Wt. Lbs.	Price Each
4-E-1831	2	1	4	1½	50	\$5.35
4-E-1832	2	1	6	2½	60	7.30
4-E-1833	2	1	8	3½	85	9.25
4-E-1834	2	2	4	3½	65	6.80
4-E-1835	2	2	6	5½	90	10.00
4-E-1836	2	2	8	7½	120	12.00
4-E-1837	2	2½	8	9½	137	13.65
4-E-1838	2	2½	8	9½	135	12.70
4-E-1839	2½	2½	8	12	150	14.65
4-E-1840	3	2½	8	11½	145	13.65
4-E-1841	3	2½	8	14	160	15.60
4-E-1842	4	2½	8	15	155	17.55
4-E-1843	4	3	8	17	174	19.50
4-E-1844	4	3	8	23	195	21.45
4-E-1845	3	2	10	14	165	17.40
4-E-1846	3	2½	10	18	192	19.50
4-E-1847	3	3	10	21	215	23.20
4-E-1848	4	2	10	19	205	21.00
4-E-1849	4	2½	10	24	225	23.20
4-E-1850	4	3	10	29	245	27.85
4-E-1851	4	2	16	30	315	33.15
4-E-1852	4	2½	16	38	365	37.05
4-E-1853	5	2	16	38	380	39.00
4-E-1854	5	2½	16	47	400	43.90

Round Galvanized Storage Tanks

These tanks are shipped knocked down, properly marked to facilitate erection. Every tank is set up at our factory and inspected before shipment. We furnish sufficient solder and rivets. Full instructions also accompany each shipment.

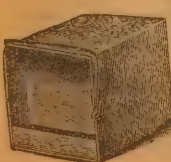
We recommend No. 18 gauge for tanks of 40 bbls. cap. and larger, No. 16 gauge for 100 bbls. tanks and larger.

Prices are F. O. B. Factory, Northern Indiana.



Number	Dia. Ft.	Ht. Ft.	Cap. Bbl.	Wt. Lbs.	Price 20 G.	Price 18 G.	Price 16 G.
4-E-1816	6	6	41	340	\$34.25	\$42.75	.....
4-E-1817	6	8	54	430	42.00	52.50	.....
4-E-1818	8	5	60	475	46.55	58.20	.....
4-E-1819	8	6	72	530	51.45	64.25	.....
4-E-1820	8	8	95	640	63.70	79.60	\$95.55
4-E-1821	8	10	120	750	.....	89.00	107.00
4-E-1822	10	8	150	875	.....	.....	123.00
4-E-1823	10	10	180	970	.....	.....	139.00

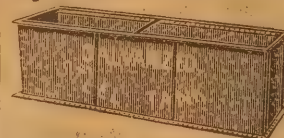
Automatic Poultry Farm



This fountain is closed tight except a small space near bottom where fowls have access to water. It will not burst by freezing. It retains water in sanitary condition. No danger of chicks drowning. Can be set on a stove.

4-E-1859 One gallon size. Price.....\$1.00
4-E-1860 Two gallon size. Price.....\$1.15

Square End Galvanized Tank

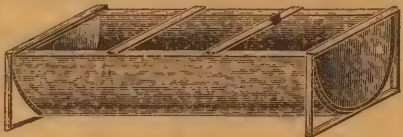


Made of No. 20 gauge galvanized steel guaranteed. Sufficiently heavy for ordinary stock watering or storage purposes. These tanks made of No. 18

gauge steel at an additional charge of 25 per cent. Prices are F. O. B. Factory, Northern Indiana.

Number	Wth. Ft.	Ht. Ft.	Lth. Ft.	Cap. Bbls.	Wt. Lbs.	Price Each
4-E-1863	2	2	4	3½	75	\$8.30
4-E-1864	2	2	6	5½	105	10.75
4-E-1865	2	2	8	7½	130	15.60
4-E-1866	2	2½	8	9½	135	17.55
4-E-1867	2½	2	8	9½	150	17.05
4-E-1868	3	2	8	11½	160	18.25
4-E-1869	2½	2½	8	12	170	19.00
4-E-1870	3	2	10	14	190	21.45
4-E-1871	3	2½	10	18	215	23.90
4-E-1874	4	2	10	19	225	25.10

Round Bottom Galvanized Tanks



No Cross Bars on Tanks less than 10 feet long. Made of 20 gauge, galvanized steel, guaranteed. Furnished with steel frame or truss at each end so it can be set on the ground. Does not have to be bolted to timbers. One cross bar on tanks 10 feet long or over. Prices are F. O. B. Factory, Northern Indiana.

Number	Wth. Ft.	Dth. Ins.	Lth. Ft.	Cap. Bbls.	Wt. Lbs.	Price Each
4-E-2964	1½	8	10	2	60	\$4.90
4-E-2967	2	12	8	4	90	7.80
4-E-2968	1½	14	8	4	90	7.85
4-E-2966	1½	14	10	5	100	8.80
4-E-2965	2	12	10	5	100	8.85
4-E-2963	2	20	8	6	130	11.70
4-E-2962	2½	18	8	6	130	11.75
4-E-2961	2	20	10	8	150	13.65
4-E-2960	2½	18	10	8	130	13.70
4-E-2972	3	24	8	10	165	15.60
4-E-2971	3½	22	8	10	165	15.65
4-E-2970	3	24	10	13	175	16.60
4-E-2969	3½	22	10	13	175	16.65
4-E-2974	4	24	8	16	185	18.50

Sheep and Hog Dipping Tank



Prevent contagious disease; for dipping Sheep and Hogs. Placed in ground with top on level with surface. Animals are driven in and out of tank. Made of No. 20 gauge galvanized steel. If made of No. 18 gauge, add 25 per cent to price. Always shipped set up. Our design is correct and best made. If you wish special style, send sketch and dimensions for prices. Prices, F. O. B. Factory, Northern Indiana.

Number	Ht. Ins.	Lth. Top Ft.	Lth. Btm Ft.	Wth Top Ft.	Wth Btm Ft.	Wt. Lbs.	Price Each
4-E-1895	36	5	3	24	12	115	\$13.15
4-E-1896	36	6	4	30	18	128	14.65
4-E-1897	42	10	5	30	12	240	24.40
4-E-1898	48	10	5	30	12	255	26.30

KNOCKED DOWN TANKS. When tanks are shipped knocked down, all holes are punched, every part is fitted together at the factory and sufficient solder and rivets are sent to put the tank together.

PIPE CONNECTION. We do not cut pipe connection in steel tanks, because it is a difficult matter for anyone to tell where it is best to cut the hole. You can easily cut the hole by using a cold chisel and cut against a block of hard wood.

Our galvanized pipe connections consist of one close nipple, two leather washers, two lock nuts and one pipe cap, so you can close hole when you wish. Shipped from factory with tanks.

Prices as follows:

4-E-1600 Pipe Connections.	Size, inches.....	¾	1	1½	2
Each.....		45c	45c	60c	90c

Round Galvanized Steel Tanks



Made of No. 20 gauge galvanized steel, guaranteed. Always shipped set up, unless otherwise ordered. This gauge of steel is sufficiently heavy in any of the sizes which we offer these tanks for ordinary stock watering or storage purposes.

We can furnish these tanks made of No. 18 gauge steel at 25 per cent. higher prices. Prices are F. O. B. Factory, Northern Indiana.

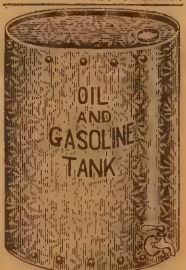
Number	Dia. Ft.	Ht. Ft.	Cap. Bbls.	Wt. Lbs.	Price Each
4-E-1801	3	2	3	65	\$7.80
4-E-1802	4	2	6	90	9.25
4-E-1803	4	2½	7	100	10.50
4-E-1804	4	3	9	115	12.40
4-E-1805	4	4	12	130	15.60
4-E-1806	5	2	9½	115	12.70
4-E-1807	5	2½	12	130	14.15
4-E-1808	5	3	14	140	15.10
4-E-1809	5	4	19	170	20.50
4-E-1810	6	2	14	150	15.60
4-E-1811	6	2½	17	160	17.00
4-E-1812	6	3	20	180	19.50
4-E-1813	6	4	27	210	24.40
4-E-1814	6	5	34	240	29.25

Premier Oil Tanks

These tanks are made of No. 20 gauge galvanized iron body and bottom, with wood bottom under metal, tin hood, portable and steady stream pump which can be taken out of the tank and used for pumping kerosene from barrel into tanks. All tanks are neatly painted and lettered.



No.	Cap. Gal.	Wt. Lbs.	Crated Price Each
4-E-1970	30	35	\$8.80
4-E-1971	60	50	9.90
4-E-1972	110	65	14.00

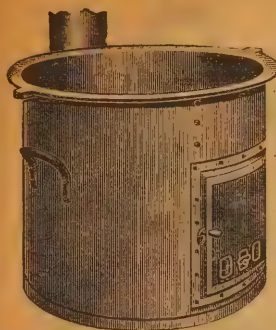


Gasoline and Oil Tanks

Made of No. 20 gauge galvanized steel, is very strong and durable and will stand much hard usage. These tanks are fitted with a screw cap opening in top to fill by and faucet in side near bottom to draw off contents. Prices given below are F. O. B. Factory, Northern Indiana.

Number	Inside Dia. Ins.	Ht. Ins.	Cap. Gals.	Price Each
4-E-1960	18	30	32	\$ 5.35
4-E-1961	24	40	58	6.15
4-E-1962	24	36	70	7.60
4-E-1963	34	30	117	9.80
4-E-1964	34	36	140	10.75
4-E-1965	34	42	165	12.95
4-E-1966	34	48	185	14.20
4-E-1967	40	42	225	16.15
4-E-1968	40	48	260	17.60

Tanks, Feeders, Cookers, Tank Heaters



Farmers' Stock Feed Cookers

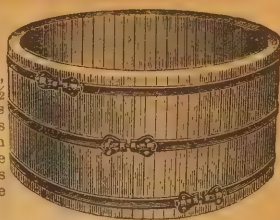
For cooking feed, heating water, boiling sugar, rendering lard, making soap, scalding. Casing or jacket is made of strong, cold-rolled steel, supported at bottom with a heavy wrought iron band, shrunk on and not riveted. The jacket is one continuous sheet of steel. The smoke is thrown around the kettle before it passes into the smoke pipe. The smoke from the outside of the kettle in direct contact with the fire, enables you to boil fifty gallons of feed in from 20 to 30 minutes. Large fire door 12x15 inches. Burns wood from 28 to 36 inches long. Prices quoted are for wood burning cookers. Shipped from warehouses in Southern Michigan or Central Iowa.

Order Number	Actual Cap. Gals.	Diam. Inside Flange	Depth Kettle Inches	Weight Lbs.	Less Cover	Cover Extra
4-E-1991	15	20 in.	13 1/2	100	\$10.50	\$1.75
4-E-1992	20	23 in.	15	125	11.95	1.75
4-E-1993	30	27 in.	16	175	15.40	2.45
4-E-1994	45	29 in.	18 1/2	200	17.50	2.45
4-E-1995	55	32 in.	21	250	18.90	2.45
4-E-1996	65	34 in.	21	275	21.70	2.45
4-E-1997	75	36 in.	22	300	23.80	2.45

COAL GRATES FOR FARMERS' STOCK FEED COOKERS
4-E-1999 Price, each. Write for prices.

Washington Fir Stock and Storage Tanks

Made of strictly clear Washington Fir, with Steel Hoops and Lugs. Size: 1 1/2 inch stock is dressed to about 1 1/2 inches thick and 2 inch stock is about 1 1/2 inches thick. On tanks 8 feet or larger in diameter, we recommend that they be made of the 2 inch stock. We ship tanks Knocked Down direct from warehouse located in Wisconsin.



Order Number	Diam. feet	Length of Staves, Feet	No. of Hoops	Capacity Gallons	Wt. 1 1/2" Lbs.	Price 1 1/2"	Wt. 2" Lbs.	Price 2"
4-E-2001	4	2	2	138	200	\$13.90	260	\$16.25
4-E-2003	4	4	3	277	300	19.00	390	24.30
4-E-2005	5	2	2	221	225	15.90	363	20.25
4-E-2007	5	5	4	575	550	30.75	715	39.50
4-E-2009	6	2	2	324	300	19.80	390	25.30
4-E-2013	7	2	2	446	400	25.80	520	30.35
4-E-2017	8	2	2	588	455	27.75	591	35.40
4-E-2021	10	2	2	981	690	41.25	780	47.25
4-E-2025	8	6	4	1100	695	41.90	1003	53.50
4-E-2027	6	8	4	1490	.....	.....	1170	74.45
4-E-2029	8	6	4	1950	.....	.....	1267	71.80
4-E-2031	8	8	5	2700	.....	.....	1495	99.25
4-E-2033	10	10	7	5100	.....	.....	1787	156.00

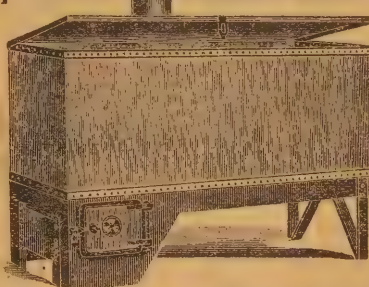
Galvanized Hog Feeder



An excellent hog feeder, made of No. 20 gauge galvanized steel, reinforced with heavy angle iron. The construction and design prevents feed waste. Hogs cannot crowd along the trough. Dry feed of any kind will flow down through the container into the trough as fast as it can be eaten. Put in one of these troughs and you will quickly see the advantage of using them only. The feed saved and the health of your hogs will more than pay for your troughs in a surprisingly short time.

4-E-58—4 ft. long, cap., 11 bus., ea. \$14.55
4-E-59—6 ft. long, cap., 16 bus., ea. 18.20
4-E-60—8 ft. long, cap., 21 bus., ea. 21.80

Improved Feed Cooker



No steam to keep up, no water to freeze. Furnace and fire flue under the boiler is heavy sheet steel. The fire box has a heavy cast iron grate and back wall. The fuel door and opening in ash pit are cast iron. The furnace is made of 14 gauge steel. The boiler or pan is No. 18 gauge steel. Cover is made of No. 20 gauge steel hinged to one side of the boiler and flanged downward, making it steam-retaining. The grate is made especially for coal, wood or cobs. Can be used for boiling sorghum, and water. Prices, F. O. B., Warehouse in Indiana.

Number	Lgth. Ins.	Wth. Ins.	Dpth. Ins.	Wt. Lbs.	Cap. Gals.	Price Each
4-E-1974	4	24	12	175	60	\$17.85
4-E-1976	4	24	18	200	90	19.20
4-E-1978	5	24	18	220	115	21.00
4-E-1977	6	28	18	290	160	26.25

Tank Heater (Self-Sinking)

\$10⁵⁰



Made of cast iron in one piece. 12 inches wide, 2 ft. high. Heater will sink itself and remain in place. Needs no rods to hold it down. Can be used in galvanized, cement, wood or any other kind of tank. Equipped with grates and ash tray, 2 ft. of smoke stack with damper and hood. Burns cobs, wood or coal.

4-E-1985. Price..... \$10.50

Galvanized Steel Wagon Tanks



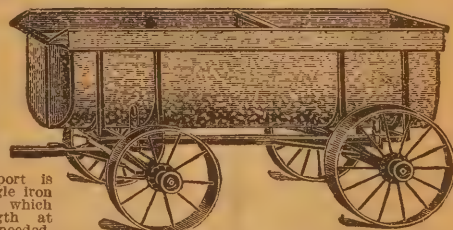
\$13⁶⁵

For portable engine, gathering maple sap and hauling liquids, manure, etc. The top or cover is made of galv. steel, the tanks are made of No. 20 gauge galv. steel. Sides and bottoms flanged together, riveted between two strips of 1x 1/2 in. metal, the rivets placed only 3 in. apart. In the top is fastened to tank by flanging sides and top together and riveted or bolted between 1x 1/2 in. metal. In the center of top there is a 14 in. round manhole with 3 in. flange extending upward with tight fitting cover. Tank is strongly braced; sides longer than 6 ft. have one bulkhead in center of tank riveted or bolted to the sides, serves to break force of water and supporting the tank against outward pressure. One inch pipe or hose connection placed close to bottom in rear. Tank is made of 20 gauge galv. steel, can make them up in 18 gauge steel at an additional cost of 25 per cent to the prices below quoted. Prices F. O. B., cars N. Ind.

Number	Wd. Ft.	Ht. Ft.	Lgth. Ft.	Cap. Bbls.	Wt. Lbs.	Price Each
4-E-1979	2	2	6	5 1/2	120	\$13.65
4-E-1980	2	2	8	7 1/2	155	16.35
4-E-1981	2	2 1/2	8	9 1/2	168	19.00
4-E-1982	3	2	8	12	191	20.90
4-E-1983	3	2	10	14	236	24.55

Steel Thresher Tanks

Made of 20 gauge galv. steel, but can make them up in 18 gauge steel at an additional cost of 2 per cent to prices given below. Made with truss support to support contents on a farm wagon bolster. The seams are all soldered inside of tank. Truss support is made of heavy angle iron and in a manner which places the strength at points where most needed. Back of the partition is a 14-inch round manhole with a flange 5 inches high and a tight fitting cover. Across the top of the tank at rear side of manhole is a plank bolted at each end to attach tank pump for filling tank. In the bottom between the front and rear truss we place a 1-inch connection for feed pipe or hose to the engine. The slush board is bolted or riveted to a fastening provided inside of the tank to the side walls, serving to support tank against outward pressure. Our bulkheads are stationary. These tanks will fit any old farm wagon bolster, narrow or wide track. For wide track or 42-inch bolster we bolt a 2x4 piece of wood on each side of truss, front and rear, which makes a close fit.

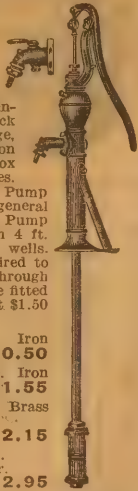


Number	Lgth. Ft.	Wdth. Ins.	Ht. Ins.	Cap. Bbls.	Wt. Lbs.	Price Each
4-E-1987	8	38	24	9 1/2	350	\$35.00
4-E-1988	10	38	24	12	375	39.00
4-E-1989	10	38	28	15	400	41.00

A Selection of Quality Pumps Priced Low

Extra Heavy Hand Force Pump

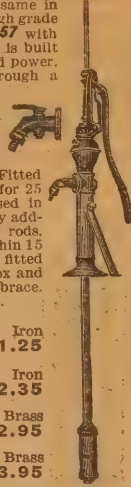
For deep or shallow wells made of the best materials by skilled mechanics. Extra long handle. This pump is anti-freezing. Has a large air chamber, internal air tubes, back outlet for discharge, brass covering, piston rod, brass stuffing box and heavy cast braces. We recommend this Pump as the very best general purpose Hand Force Pump made. Fitted with 4 ft. set length for 25 ft. wells. If this Pump is desired to discharge water through back outlet it can be fitted with a cock spout at \$1.50 additional.



4-E-2357. 3x10. Iron Cylinder. Price. **\$10.50**
4-E-2359. 3½x10. Iron Cylinder. Price. **\$11.55**
4-E-2361. 3x10. Brass Body Cylinder. Price. **\$12.15**
4-E-2363. 3½x10. Brass Body Cylinder. Price. **\$12.95**

Extra Heavy Windmill and Hand Force Pump

This pump is the same in construction as our high grade Pump No. **4-E-2357** with the exception that it is built for windmill and hand power. Will force water through a hole to any desired elevation. If it is desired to discharge water through the back outlet order with cock spout at \$1.50 additional. Fitted with 4 ft. set length for 25 ft. well. Can be used in deeper wells by simply adding pipe and pump rods, keeping cylinder within 15 ft. of the water. Is fitted with brass stuffing box and heavy cast iron brace. Built for heavy work.



4-E-2365. 3x10. Iron Cylinder. Price. **\$11.25**
4-E-2367. 3½x10. Iron Cylinder. Price. **\$12.35**
4-E-2369. 3x10. Brass Cylinder. Price. **\$12.95**
4-E-2371. 3½x10. Brass Cylinder. Price. **\$13.95**

Double Acting Ratchet Head Force Pump

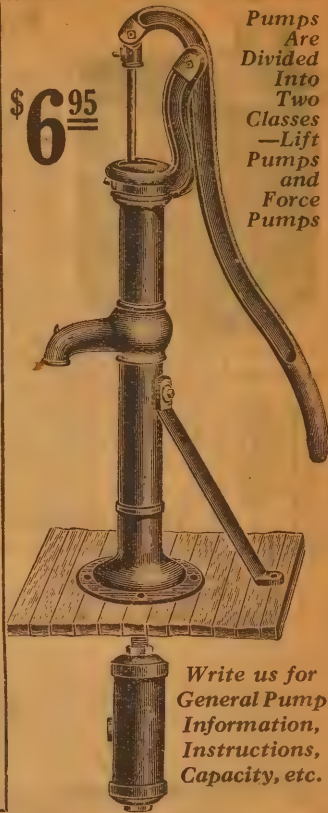
This Pump has adjustable base brass upper cylinder goose neck spout with hose connections constructed to go in 5¼ in. casing ratchet or gear head. It is an up-to-date and improved pump. By this construction the leverage is so much increased that a deep well being hard to pump with a fulcrum handle becomes easy to work with a Ratchet Head Pump. We furnish with this pump a lower cylinder which can be lowered to within 10 ft. of the water and used in wells of nearly any depth.



4-E-2411. 2½ x 10. Polished Iron Cylinder. Price. **\$10.50**
4-E-2413. 3 x 10. Polished Iron Cylinder. Price. **\$10.80**
4-E-2415. 2½ x 10. Brass Cylinder. Price. **\$12.00**
4-E-2417. 3x10. Brass Cylinder. Price. **\$12.50**

\$6⁹⁵

Pumps Are Divided Into Two Classes—Lift Pumps and Force Pumps



Write us for General Pump Information, Instructions, Capacity, etc.

Premier Wind and Hand Force Pump Standard

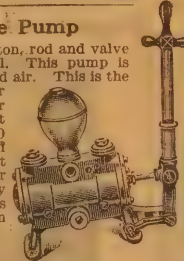
The Premier Windmill Standard is designed for Windmills and Hand Force Pumps. Another all above ground Force Pump which is built heavy and strong with a plain or cock spout as desired. Fitted for 1¼ in., 1½ in. or 2 in. Pipe and with back outlet for 1½ in. Pipe. Brass stuffing box, piston rod, revolving head, extra long handle and heavy braces. There is nothing better in Force Pump Standard. This is not a complete Pump and the price includes standard only. Standard is fitted for 6 in. stroke. In ordering, be sure and specify size of pipe for which you wish Pump fitted. Cock Spout for \$2.00 additional.



4-E-2373. Fitted for 1¼ in. or 1½ in. pipe. Price. **\$8.25**
4-E-2375. Fitted for 2-inch pipe. Price. **\$9.20**

Double Acting Horizontal Force Pump

Brass lined cylinder, extension air pump brass piston, rod and valve seats, easy working, compact, powerful, substantial. This pump is used on our water works outfits for pumping water and air. This is the most powerful, reliable and efficient pump made for elevating water from well or cistern to attic tank or upper floors. Easy working against high pressure. It is double acting and has a capacity of about 300 gallons per hour. Has iron handles and provided with convenient hand holes. Each pump is tested at our factory and is guaranteed positively water and air tight. Cylinder heads are removable. Valves are easily unpacked by unscrewing. Piston rod and valve seats are brass. Both sides are tapped for 1¼ in. suction and 1 in. discharge.



4-E-2395. Horizontal Force Pump, 3-in. brass lined cylinder. Price. **\$13.65**

When pump is used as combined water and air pump, we furnish same pump equipped with ¼ in. pet cock and ¼ in. check valve. Has pneumatic attachment to screw in cylinder head. To pump air and water simply open pet cock.

4-E-2455. Combined Water and Air Pump. Price. **\$15.30**

OUR LEADER PUMP

The greatest pump bargain ever offered. Has a regular 4 ft. set length. Adapted for cisterns or wells not over 25 ft. deep. By lowering cylinder within 10 ft. of water it can be used in deeper wells. Has 6 in. stroke. Fitted with 3x10 iron cylinder. The top is a separate casting attached with a set screw, allowing you to set the handle to any position you wish. Body is cast and is large and strong and nicely finished. A wonderful bargain.

4-E-2287. Price. **\$6.95**

Our Renown Force Pump

A Force Pump that will do the business and is very cheap. Complete with hose connection. A wonderful bargain and gives absolute satisfaction. Cylinder 4 ft. down for cistern wells or wells 25 ft. deep or less. This pump, however, is adapted to wells as deep as 50 or 75 ft. The base may be adjusted after the pump is set by merely unloosening the set screw or raising or lowering the pump to the upper height.



4-E-2401. 3 x 10. Iron Cylinder. Price. **\$8.85**
4-E-2405. 3 x 10. Brass Cylinder. Price. **\$10.50**
 For Windmill Head add. **\$2.50**

Double Acting Under Ground 3-Way Force Pump

The latest thing in an Improved Anti-Freezing Hand Pump, for any depth well. For windmill or hand power. Quick-acting cam, 3-way lever, adjustable base, cast iron brace, large air valve complete with hose connection, also cylinder and strainer. This is the best force pump to purchase for general purposes. It will discharge a great stream of water to any distance. Can be fitted with 1½ in. pipe without extra cost and with adjustable stroke.



6, 8 and 10 in. at an additional cost of \$2.00.
 Ratchet Head at additional cost of \$2.50.
4-E-2435. 2½ x 10 Brass Body Cylinder. Price. **\$14.65**
4-E-2437. 3 x 10 Brass Body Cylinder. Price. **\$15.00**
4-E-2439. 3½ x 10 in. Brass Body Cylinder. At. **\$15.75**

Double Acting Hand Force Pump

This Double Acting Force Pump has adjustable base, brass upper cylinder, gooseneck spout with hose connection, constructed to go inside 5¼ in. casing. Especially adapted to use with hose about house (or barn) throws a steady stream and is easy to operate. This is a very neat, high class force pump at a very low price. For wells deeper than 25 ft. add pipe and pump rods to put cylinder down within 10 to 15 ft. below water mark in well.



4-E-2427. 2½x10 in. Iron Cylinder. Price. **\$10.60**
4-E-2429. 3 x 10 in. Iron Cylinder. Price. **\$10.90**
4-E-2431. 2½x10 in. Brass Cylinder. Price. **\$12.10**
4-E-2433. 3 x 10 in. Brass Cylinder. Price. **\$12.60**

Premier Double Acting 3-Way Pump

For windmill and Hand Power Under Ground Double Acting 3-Way Force Pump. This Pump is one of the most popular sellers which we have ever offered. They simply give perfect satisfaction under all conditions. This Pump is fitted with an up-to-date cam lever for quick adjustment and distributing valve. By merely throwing the lever you can change the Pump from spout supply to third way supply and force the water to tank or out on the lawn or any place you may desire. Pump is fitted with adjustable base, hose connection, strainer, brass upper cylinder, adjustable stroke and is tapped for 2 in. pipe with wood rod connection for tubular wells of any depth.



4-E-2425. Without lower cylinder. Price. **\$14.15**

Dependable Pumps and Sprays

Pitcher Spout Pumps



\$2.40

For cisterns and shallow wells. Bored and polished, finished with two coats green enamel paint, bronze stripping. Bearer top revolves so handle can operate at any angle by raising handle to extreme height. Can drain to prevent freezing. Fitted for 1½-in. pipe unless otherwise specified.

4-E-2251. Size No. 2, 3 in. Iron Cylinder. Price. **\$2.40**

4-E-2253. Size No. 2, 3 in. Brass Body Cylinder. Price. **\$4.10**

Heavy Hand Lift Standard



This standard is suitable for any depth well that can be pumped by hand. Its strongly built with revolving head, handle can be operated from any angle at the spout, 6-1/2 inch stroke, fitted for 1½ inch pipe. Large water-lift strong iron brace. It is a very practical standard to use in drilled or dug wells. Prices quoted are for standard without cylinder. This standard can be used with our Cylinder 4-E-2723, 4-E-2724, 4-E-2725.

4-E-2299. Price. **\$4.20**

Perfection Anti-freezing Lift Pump



This Pump is set length fitted for wells not deeper than 25 ft., but cylinder can be extended with additional pipe and pump rod into any depth well that can be pumped by hand. It is equipped with a heavy, strong handle, revolving top so that the handle can be operated at any angle from the spout. It has a large spout and is fitted with very best polished iron, brass lined or brass body cylinder. Fitted with a 4-ft. set length for 6-in. stroke. Fitted for 1½-in. Pipe.

4-E-2269. 2½x10 in. Iron Cylinder. Price. **\$7.10**

4-E-2271. 3x10 in. Iron Cylinder. Price. **\$7.35**

4-E-2275. 2½x10 in. Brass Body Cylinder. Price. **\$8.80**

4-E-2277. 3x10 in. Brass Body Cylinder. Price. **\$9.20**

Closed Top Anti-freezing



This Pump is designed for use in Public places where children or meddlesome grown-ups may drop stop, metal, etc., into the open top that will damage the valves or make it necessary to open up for repairs. It is built for deep drilled and dug wells, also for drive wells. Has revolving top. Furnished in either iron, brass lined or brass body cylinder. This pump is furnished with cylinder placed 4 ft. down for 25 ft. well, but can be fitted for any depth well by using additional pipe, keeping cylinder within 15 or 20 ft. of the water. Fitted for 1½ in. Pipe.

4-E-2281. 3x10 in. Iron Cylinder. Price. **\$8.00**

4-E-2285. 3x10 in. Brass Body Cylinder. Price. **\$9.80**

Improved Windmill Standard Adjustable Stroke



4-E-2297. Price. **\$7.50**

Two-Way Kitchen Force Pump



\$5.95

This Pump is fitted with brass cylinder, brass valve seats, brass piston rod and stuffing box. It is tapped on top in the back of the head for 1 in. discharge pipe. It is a very powerful Pump and will maintain a high pressure. We recommend that this Pump be placed within 25 ft. of the water. Complete with Bibb.

4-E-2263. Size No. 1, 2½ in. Brass Cylinder fitted for 1½ in. pipe. Price. **\$5.95**

4-E-2265. Size No. 2, 3 in. Brass Cylinder fitted for 1½ in. pipe. Price. **\$6.45**

Improved Kitchen Force Pump



This Pump has a brass cylinder, brass valve seats, brass piston rod and stuffing box. Combines both features of a lift and force pump with a syphon spout with hose connection. It is tapped on top in the back of the head for a 1 in. discharge pipe. It will force the water to any desired elevation to the second or third floor or out on the lawn. The Trip to drain this Pump is operated by raising the handle to the extreme height.

4-E-2264. Size No. 1, 2½ in. Brass Body Cylinder fitted for 1½ in. pipe. Price. **\$5.15**

4-E-2266. Size No. 2, 3 in. Brass Body Cylinder, fitted for 1½ in. pipe. Price. **\$5.65**

Anti-freezing Windmill and Hand Lift Pump



This is a very substantial general purpose Pump. Built specially strong for heavy pumping. It can be quickly changed from hand to windmill by simply withdrawing the malleable pump pin from the pump handle to connect on the windmill pump rod. Furnished with the best polished iron, brass lined or brass body cylinder. Pump is furnished with a 4 ft. set length suitable for wells up to 30 ft. deep. Also can be used for wells for any depth by using additional pipe and pump rods. Always keep the cylinder within 10 to 15 ft. of the water.

4-E-2293. 3x10 in. Iron Cylinder fitted for 1½ in. pipe. Price. **\$8.60**

4-E-2295. 3x10 in. Brass Body Cylinder fitted for 1½ in. pipe. Price. **\$10.45**

"Perfection" Spray Pump

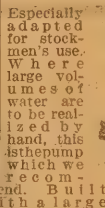


These Pump Barrels are made of seamless brass tubing. The bottom is brass with brass gauze strainer. The valves are hard vulcanized rubber balls. The pressure which is brought on the down stroke can be easily made from 75 to 125 lbs. The nozzle will throw a spray or solid stream, sprinkle or fine mist. Every pump is equipped with agitator to keep spraying solution stirred up. Each pump is fitted with 3 ft. of extra heavy 4 ply hose and nozzle.

4-E-2601. Price, with bucket attachment. **\$4.20**

4-E-2601. Price, fitted with foot holder instead of bucket attachment. **\$4.25**

Big Mouth Stock Pump

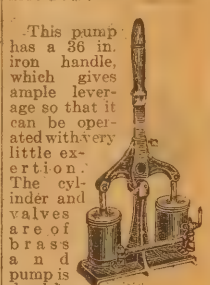


Especially adapted for stockmen's use. Where large volumes of water are to be realized by hand, this is the pump which we recommend. Built with a large waterway and reservoir syphon spout, revolving head fitted for 2 in. pipe with 4 in. cylinder. Strong braced and adjustable base, which is a feature of the great convenience after the pump is installed as it can be raised or lowered to suit a suction pipe to free it from sediment at the bottom.

4-E-2290. 4x10 in. Cylinder fitted for 2 in. pipe. Price. **\$10.50**

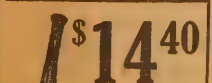
4-E-2292. 4x10 in. Brass Cylinder fitted for 2 in. pipe. Price. **\$13.55**

Double Acting Air Pump



This pump has a 36 in. iron handle, which gives ample leverage so that it can be operated with very little exertion. The cylinder and valves are of brass and pump is double acting and will provide a large column of air. The pump handle can be removed when pump is not in use. Diameter of the cylinder, 3½ ins.; length, 5 ins.

4-E-2421 Price. **\$19.95**



Premier Thresher Tank Pumps

Large capacity double acting 5 inch cylinder, especially recommended where a large amount of water is required. Capacity, one to two barrels per minute. Furnished with goose neck discharge for 1 inch hose and suction for two inch hose connection. By removing couplings can be used for 2 inch iron pipe connection or smaller size by using proper bushings. Has reversible head, so that handle may be used on either side. Has brass valve seats and is superior to any tank pump on the market today. Suction strainer furnished free of charge with each pump.

4-E-2457. Pump complete as described. Price. **\$14.40**

4-E-2459. Five inches crimped plunger leathers for pump, per set of two. **\$1.00**

Horizontal Power Force Pump

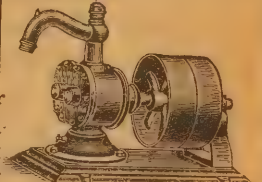


\$35.75

Air cocks are provided to drain pump in cold weather. Occupies floor space 22x44 inches. Has a vertical suction lift 30 feet or less. Size, tight or loose pulleys, 14x2½ inches. Gearing ratio, 3 to 1. Shipped from factory. Central Indiana. Price

	Dia.	Suction	Discharge	Brass
	Cyl.	Pipe	Pipe	Cylinder
4-E-2537	3 in.	1½ in.	1½ in.	\$35.75

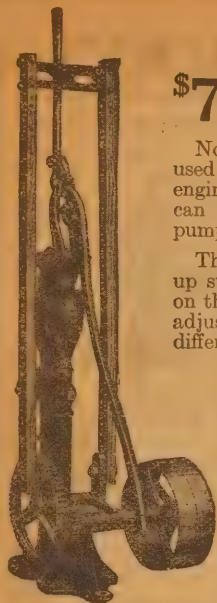
Rotary Power Force Pump



Largest capacity power force pump made. Especially adapted for irrigation purposes. Will force water 200 feet and throw a solid stream of water 30 feet. Spout is threaded for iron pipe at end and also at top. Bearings are babbit lined. Cap on upper discharge can be placed on end of spout and water discharged vertically.

	Ity.	tion	charge	Pulleys	Balance
	Gals.	Pipe	Pipe	Inches	Wheel
4-E-2503	13	1½	1	7x2½	\$17.50
4-E-2505	14	1½	1	7x2½	20.40
4-E-2507	17	1½	1½	8x2½	23.50
4-E-2509	27	2	1½	12x3½	42.00
4-E-2511	36	2	2	12x3½	45.00

4-E-2513 Balance Wheel and Handle for Hand Power, extra. **\$7.50**



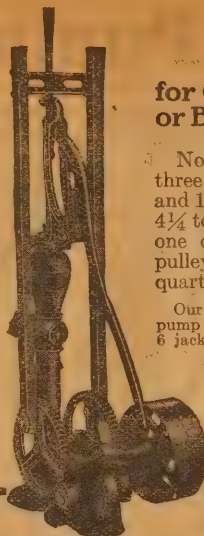
Pump

\$750 for Gas Engines or Belted Power

No. 550 and No. 660 Jacks are used in connection with gasoline engines or any other belt power and can be attached to any ordinary pump stand.

The pitman rods are vertical on up stroke so there is no side wear on the piston bar of pump, and are adjustable for pump stands of different heights.

Furnished with tight and loose pulleys, 12 inches in diameter, for 2-inch belt, and should be driven from 150 to 200 revolutions per minute.



Jacks

for Gas Engines \$635 or Belted Power

No. 550 and No. 660 Jacks have three strokes—5 inch, 7½ inch and 10 inch, and are back-geared 4¼ to 1 so the pitman rod makes one complete stroke while the pulley makes four and one-quarter revolutions.

Our No. 5 jack clamps direct to pump as shown in illustration. No. 6 jack is so constructed that it bolts to same platform that pump is attached to and can be used on the floor, wall or ceiling. This jack we recommend where it is not possible to clamp direct to pump.



Clamps Direct to Pump

Double Back-Geared Pump Jack, \$10.75

Fitted with two sets of driving gears. Has double the strength of the single geared type. Recommended for very deep wells.

It has three strokes, 4½, 7 and 10 inches, and is back geared 9¼ to 1, so that the driving pulley makes about 300 revolutions per minute while the pump is making 30 strokes per minute.

This is a most excellent jack to use with all sizes of gasoline engines; if you have a small engine you can belt direct without reducing its power or slowing engine down.

Pulleys are 12 inches in diameter for 2-inch belt, but if these sizes do not give you the required speed other diameter pulleys can be furnished at a nominal cost. Weight, 96 pounds.

8-E-770. Double Back-Geared Pump Jack. Price.....\$10.75

8-E-660

Base Jack

Weight, 80 lbs.

8-E-650

Clamp Jack

Weight, 70 lbs.

Pump Cylinders

The most important part of the pump—Our cylinders are most carefully made, bored true, and plungers fit accurately.

A 10-inch cylinder has a 6-inch stroke; a 12-inch cylinder an 8-inch stroke; a 14-inch cylinder a 10-inch stroke and a 16-inch cylinder a 12-inch stroke.

2-inch cylinders are fitted for 1-inch pipe; 2½ or 3-inch cylinders fitted for 1½-inch pipe; 3½-inch for 1½-inch pipe and 4-inch cylinders fitted for 2-inch pipe.

We recommend brass-body cylinders.

Iron Body Brass Lined Cylinders

4-E-2723

Diam. Inch	Length, Inches			
	10	12	14	16
2	\$2.75	\$2.90	\$3.10	\$3.52
2½	2.95	3.15	3.40	3.90
3	3.30	3.50	3.90	4.95
3½	3.85	4.10	4.50	4.45
4	4.80	5.25	5.80	6.55

Tubular Well Valves



Style No. 1

Two Leather Plunger



Flat Check



Ball Leather Plunger



Ball Check



Style No. 3

Four Leather Plunger



Bale Top Check



Style No. 4

Four Leather Bale Top Plunger

Our Tubular Well Valves are heavy and strong and of the best quality of brass, carefully and well finished inside and out, fitted with the best oak tan leathers.

Prices quoted below per set consist of check and plunger valve.

No.	Size Ins.	Lea.	Price Set	No.	Size Ins.	Lea.	Price Set
4-E-2788	2	2	\$3.00	4-E-2791	2½	4	\$6.00
4-E-2789	2	4	3.75	4-E-2792	3	2	7.00
4-E-2790	2½	2	4.85	4-E-2793	3	4	8.60

Eureka Tubular Well Cylinder

Made of seamless drawn brass tubing with brass valves and designed to fit inside of the pipe in sizes as listed. The cylinder is perfectly flush, having no caps, making it possible to be slipped into pipe and set at any depth desired.

It can be readily removed for repairs or taken up and replaced in another well.

A seating tool is used for this purpose in connection with 1-inch pipe of sufficient length to lower seating tool to the depth which cylinder is to be placed. A spring coupling holds firmly to the walls inside of pipe. Length of stroke 12 inches.



Number	Size	Each
4-E-2777.	2 inch	\$5.80
4-E-2778.	2½ inch	8.85
4-E-2779.	3 inch	12.75

Brass Body Cylinders with All Brass Plungers

4-E-2724 ½

Diam. Inch	Length, Inches			
	10	12	14	16
2	\$4.95	\$5.70	\$6.05	\$6.45
2½	5.25	6.00	6.50	7.40
3	6.00	6.80	7.25	7.90
3½	7.10	8.50	9.10	9.90
4	9.60	11.15	11.75	12.70

All Iron Cylinders

4-E-2725

Diam. Inch	Length, Inches			
	10	12	14	16
2	\$1.45	\$1.90	\$2.15	\$2.20
2½	1.68	2.15	2.30	2.50
3	1.95	2.50	2.70	2.85
3½	2.72	3.20	3.55	4.00
4	3.45	4.10	4.60	5.15



Lower Valve Leathers

4-E-2726. Made from the best oak tanned leather.

Dia., Cyl.	2	2½	3	3½	4
Each....	5c	6c	9c	11c	15c

Plunger Leathers

4-E-2727. Made from best oak tanned leather.

Dia., Cyl.	2	2½	3	3½	4
Each....	10c	12c	15c	23c	28c

PUMP AND WELL ACCESSORIES



Stuffing Box Heads

Used in connection with tubular wells in place of Pump Standards.

Stuffing Box Head (Fig. No. 1) with side outlet made of iron with polished steel rod. Fitted at top end with square wood rod socket.

Fig. 1 Fig. 2 Fig. 3

Number	Pipe size, Inches	Stroke, Inches	Price, Each
4-E-2643	1 1/4	10	\$3.95
4-E-2645	1 1/2	10	3.95
4-E-2647	2	10	3.95

(Fig. No. 2), made of iron with 7/16-inch polished steel pump rod.

Number	Size, Pipe Inches	Stroke, Inches	Price, Each
4-E-2649	1 1/4	10	\$2.20
4-E-2651	1 1/2	10	2.20
4-E-2653	2	10	2.20

(Fig. No. 3), made of cast brass with 7/16-inch polished steel pump rod.

Number	Pipe, Size Inches	Stroke, Inches	Price, Each
4-E-2655	1 1/4	10	\$2.95
4-E-2657	1 1/2	10	2.95
4-E-2659	2	10	2.95



Gauze Covered Strainers

4-E-2671. Used on the end of well and cistern pipe and is covered with brass cloth.

Size, inches..... 1 1 1/4 1 1/2 2
Price, each..... 31c 36c 40c 56c



Tank Floats

To be used in connection with Float Valves. Stem being attached to valve lever to open and close automatically.

5-E-2689. Copper Floats. Size, 9 1/2 x 2 3/4 inches. Price, each..... \$1.50

5-E-2690. Copper Tank Floats. Size, 12 x 3 inches. Price, each..... \$1.90

Little Giant Pipe Holder

4-E-2685. A new device for holding pipe. Will hold pipe sizes 1, 1 1/2 and 2 ins. Dog has corrugated chilled surface, making it impossible for the pipe to slip. Strongly made and well finished. A thoroughly practical and satisfactory tool.

Price..... \$2.65



Float Valves

5-E-2687. Reversible Float outlet valves for automatically controlling the flow of water in reservoirs, stock tanks, cisterns, etc., and is equally effective under high or low pressure. Valve opens with flow instead of against it. Valve will not stick, and is not injured by freezing. By reversing the lever a perfect outlet valve is obtained.

Size, inches..... 3/4 1 1 1/4
Price, each..... \$1.50 \$1.75 \$1.95



Drive Well Points

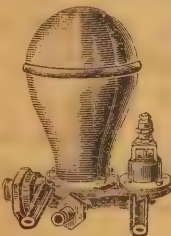
They are made of wrought iron pipe galvanized inside and out after the holes are punched. They are covered with brass gauze and have a great filtering surface. No. 60 gauze is generally used. No. 100 gauze is for quicksand. We can furnish either flush point for tubular well or with cast point for driving. Be sure and give number when ordering.

4-E-2661. Cast Point.

4-E-2663. Flush Point.

Diam. Inches	Length Inches	No. 60 gauze	No. 100 gauze
1 1/4	24	\$1.60	\$3.50
1 1/2	30	2.00	4.40
1 3/4	36	2.45	5.25
1 3/4	42	2.85	6.10
1 3/4	30	2.60	5.15
1 3/4	36	3.15	6.20
1 3/4	48	4.20	8.00
2	36	4.60	8.25

Perfection Hydraulic Rams



Here is one of the most wonderful machines for water supply. It will automatically lift water to a tank or reservoir, providing it is placed so as to obtain a fall of 2 ft. or more from the stream, or source of supply to this ram.

An example: If you are near a stream of water, so situated that you can secure a fall of 2 ft. or more from the water to the location of the ram, the ram will automatically discharge a certain portion of the water to a point considerably above and beyond the ram.

Ram should be placed below a Spring or stream of water at a distance varying from 25 to 50 feet. For every 10 ft. that you wish to elevate the water, the ram must be placed one foot below the level of the Spring. Should you wish to elevate the water to a height of 50 ft., ram would have to be placed at a point 5 ft. lower than the source of supply.

A ram with a 10 ft. fall will drive about 1-7 of the water furnished a distance of 100 to 200 rods to a position 10 to 200 ft. above the level of the ram.

Order No.	Size No.	Supply per min. to operate Ram, Gals.	Length of Drive Pipe, Ft.	Caliber of Pipes Ins.	Dr.	Dis.	Price
4-E-2517	3	2 to 4	50 to 75	1	1/2		\$14.25
4-E-2519	4	3 to 7	50 to 100	1 1/4			13.75
4-E-2521	5	6 to 11	50 to 150	2	1		23.00
4-E-2523	6	11 to 25	50 to 200	2 1/2	1 1/2		48.00

Pump Stock and Dies



4-E-2619. 2 dies and 1 stock. Will cut full threads. Size, inches, 3/4 and 1. Price, each..... \$3.35

Monitor Pipe Holder

4-E-2683. Capacity from 1 to 2 ins. Simple in construction and easily operated. The dog is chill hardened and will not wear. Grips the pipe perfectly and guaranteed not to slip. Price..... \$5.60



Foot Valves



A combination Foot Valve and Strainer. It is placed on the end of pipe in the bottom of cistern or well and prevents anything passing into the pipe and thereby choking the cylinder. It also serves the purpose of a check valve, keeping water in the pipe and making priming unnecessary.

Number	Size	Price
21-E-2664.	For 1 in. pipe.....	\$0.53
21-E-2665.	For 1 1/4 in. pipe.....	.61
21-E-2667.	For 1 1/2 in. pipe.....	.78
21-E-2669.	For 2 in. pipe.....	1.05

Galvanized Pump Rod Coupling



To be used in connection with galvanized steel Pump Rod. These couplings are malleable iron heavily galvanized and are threaded.

4-E-2613. Size, 3/8 in., 14 threads to the inch. Price, each..... 5c

4-E-2615. Size, 1/2 in., 14 threads to the inch. Price, each..... 6c

4-E-2617. Size, 3/4 in., 14 threads to the inch. Reducing pump rod coupling. Price, each..... 7c

Water Conductors



21-E-2673. Used to conduct water from spout of pump to tank and are made with a swivel so water can be carried in any direction from the pump. Size, inches, 1 1/4 1 1/2. Price, each 67c 67c

Murdock Lawn Hydrants

4-E-2693. The body of this Hydrant is ornamental and anti-freezing. When shut off, the valve at the bottom drains the body of the Hydrant. This valve can be removed from the top and be repaired without taking up the hydrant.

The tops of these hydrants are well constructed and nicely finished. All parts are made from the very best material and each hydrant is fully guaranteed.

Size, inches... 3/4 1 1 1/2 2
Set in ground, ft... 3 4 5 6
Price..... \$5.50 \$6.05 \$6.90 \$7.40



Drive Caps

4-E-2677. Used for driving pipe for Drive Wells. Guaranteed not to crush the thread.

Size, inches.. 1 1/4 1 1/2 2 2 1/2 3 4
Price, each.. 25c 31c 52c \$1.26 \$1.58 \$1.90



Cast Steel Drive Shoes

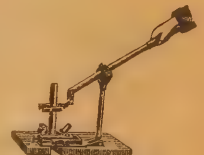
4-E-2679. These shoes are made of cast special steel and have a recess as shown in illustration, to prevent the pipe from spreading or breaking off at end of threads. They have an inside shoulder to prevent the pipe from being forced through the shoe.



Size	Price Each	Size	Price Each
2 inches.....	\$0.90	4 inches.....	\$2.95
2 1/2 inches.....	1.25	4 1/2 inches.....	4.20
3 inches.....	1.68	5 inches.....	4.75
3 1/2 inches.....	2.80	6 inches.....	7.25

Babcock Pipe Lifter and Holder

4-E-2681. Used by well drillers. It is simple and perfect in its operation, guaranteed not to tear or damage pipe. Handles pipe from 1 to 2 inches inclusive. Approximate weight, 45 pounds. Price..... \$7.00



Well Wheels



4-E-2576. For use with rope, size, 3/8-inch or smaller. Can also be used with regular well chain. Width of frame, 10 inches. Japanned finish. Price..... 90c

General Hardware at Big Savings

Premier Warranted Files

Square
Edge
Mill Files

4-E-4501

Length, in. 4 6 8
Price, each. 10c 12c 15c
Length, in. 10 12 14 16
Price, each. 19c 26c 38c 52c



The best cutting and most satisfactory files manufactured. Made of special crucible steel, carefully hardened and tempered.

Flat
Bastard
Files
4-E-4502
Lgth., ins. 4 5 6
Price, ea. 13c 14c 15c
Lgth., in. 8 10 12 14 16
Pr., ea. 19c 25c 35c 46c 64c



Rural Mail Brass Padlock

Solid hard brass inside works. Will not rust or corrode. Automatic spring shackle. Price includes 2 keys with each lock. One master key for use of mail carrier furnished with each dozen locks.

4-E-3747. Price, each, without chain. 55c
4-E-3749. With 6 inch brass chain. 65c
Price, each. 55c 65c



Bronze Bicycle Lock

Extra strong shackle and bolts, self locking spring shackle furnished with 10-inch nickel plated steel chain, with solid steel ring; 2 keys. A strictly first class lock.

4-E-3745. Price. 45c



6-Lever Wrought Steel

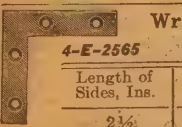
Solid rod steel case heavily brass plated and handsomely finished, six screw levers, all brass inside work; self locking spring shackle; 2 flat steel keys.

4-E-3739. Price, each 60c



Steel Lock with Brass Drop

Brass cover key-hole, case made of annealed steel, contains no rivets or loose bolts, shackle made of highest quality malleable iron, 2 keys. 4-E-3727. Price, each. 22c

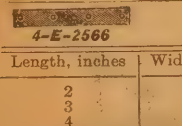


Wrought Steel Flat Corner Iron

4-E-2565

Length of Sides, Ins.	Width, Inches	Price per Doz.
2 1/2	3/4	22c
3	1 1/4	24c
3 1/2	1 3/4	29c
4	2 1/4	36c

Less screws.



Wrought Steel Mending Plates

4-E-2666

Length, inches	Width, inches	Price, per Doz.
2	5/8	21c
3	3/4	29c
4	1 1/4	36c

Less Screws.



Wrought Steel Corner Iron

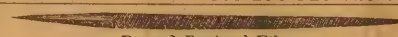
4-E-2567
Less Screws

Length of Sides, Ins.	Width, Inches	Price per Doz.
1	3/8	15c
1 1/2	1/2	19c
2	3/4	24c
2 1/2	1 1/4	32c
3	1 3/4	39c
4	2 1/4	68c

Half Round Bastard Files

4-E-4505

Length, inches. 6 8 10 12 14
Price, each. 21c 27c 32c 42c 55c



Round Bastard Files

4-E-4507

Length, inches. 4 6 8 10 12
Price, each. 10c 11c 13c 15c 20c 27c



Square Bastard Files

4-E-4509

Length, inches. 4 5 6 8 10 12
Price, each. 13c 15c 17c 19c 26c 36c



Mill Files—One Edge Round

4-E-4511

Length, inches. 4 6 8 10 12 14
Price, each. 17c 22c 30c 50c



Taper Saw Files—Single Cut

4-E-4513

Length, inches. 3 4 5 6 7 8
Price, each. 7c 7c 9c 12c 15c 19c



Slim Taper Saw Files—Single Cut

4-E-4515

Length, inches. 3 4 5 6 7 8
Price, each. 7c 7c 9c 11c 14c 16c



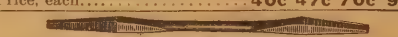
Cant Saw File

Length, inches. 5 6 7 8
Price, each. 16c 19c 22c 30c



Half Round Wood Rasp

Length, inches. 8 10 12 14
Price, each. 40c 47c 70c 90c



Auger Bit File

4-E-4519. Suitable for filing any size auger bit without filing the screw or lip. Will save auger bits. Each. 20c



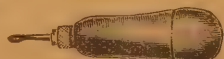
Huntington Pattern Emery Wheel Dresser

This Emery Wheel Dresser is used for purposes of truing, shaping and removing glaze from emery wheel while running at full speed. This tool will entirely remove glaze thereby causing the emery wheel to grind properly.

4-E-2662. Price, with two sets of cutters. 56c
4-E-2666. Extra cutters, per set. 8c

Hollow Handle Awl Set

4-E-4539. Hollow hardwood handle, 5 inches long, containing 50 ft. best waxed linen shoe thread, 3 awls and 5 needles, assorted sizes. Price. 80c



Wrought Steel Padlock

Heavily brass plated with self locking spring shackle, 6 screw levers, 2 double fitted barrel keys. 4-E-3757. 33c



8-Lever Rustproof Steel

Heavily brass plated with heavy self locking spring shackle, 6 screw levers, 2 double heated barrel keys and strong durable lock. An exceptional value. 4-E-3755. Price. 70c



Ornamental Steel Lock

4-E-3729. One of our best values, ornamental brass plated steel case, strong spring shackle, self locking with 2 flat steel keys. Price. 31c



3-Lever Brass Padlock

For outside use, heavy spring shackle, self locking, 2 flat steel keys. 4-E-3753. 82c



Solid Steel Padlock

4-E-3725. Stronger and more durable than the old steel rod iron padlock. Case is made of annealed steel, contains no rivets or loose parts. Japan finish polish shackle, with 2 keys. Price, each. 20c



Steel Wire File Cleaner

4-E-4533. Made with steel wire bristles. Price. 27c



Wood File Handles

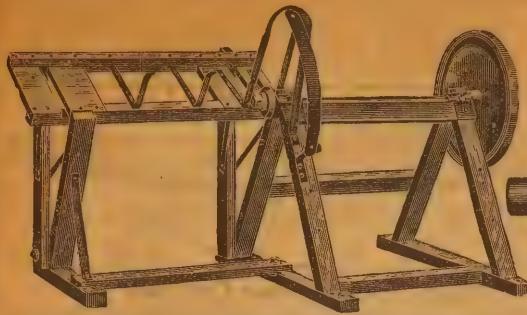
4-E-4537. Furnished in three sizes, large, medium and small. Be sure and give size wanted when ordering. Price, each. 5c



Interchangeable File and Tool Holder

4-E-2668. Will hold files and tools square, round or flat shank; smaller than 3/4 inch. Price, each. 17c





Tilting Table Wood Saw Frame with Pole Extension

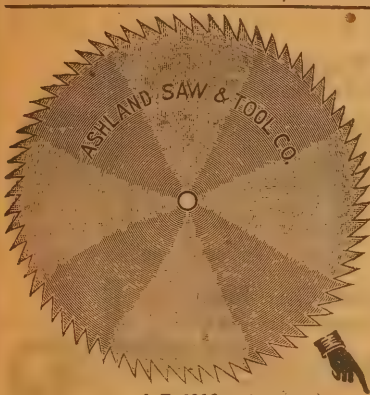
Perfectly adapted for sawing either long poles or heavy logs, etc. Right hand frame furnished, unless otherwise specified. Mandrel 1½ inch diameter, turned to fit 1½ inch hole in saw. Fitted with 95 lb. balance wheel. Pulley, 5 inch diameter, 6 inch face. Prices, F. O. B. Cars, factory near Chicago. Weight, 325 lbs. Shipped knocked down.

16-E-490. Frame complete, no saw. Price.....**\$23.50**

TILTING TABLE WOOD SAW FRAME

We furnish the saw frame above without extension tilting table for sawing cordwood and short boards, etc.

16-E-500. Frame, complete, no saw. Price.....**\$21.85**



4-E-4203

Solid Tooth Cut-Off Saw

Cord Wood and Pole Saws

4-E-4213. Natural Oil Temper finish. Manufactured by expert mechanics and high grade material. They are ground, hand filed, set and sharpened for the use intended; but are not constructed for high speed works. Any size saw and mandrel hole on saws furnished direct from factory if specified; otherwise we ship saws with 1½ inch mandrel hole.

Diam. Inches	Gauge, No.	Size hole, Inches	Price
20	13	1½	\$2.50
22	12	1½	2.95
24	11	1½	3.45
26	10	1½	4.05
28	9	1½	4.70
30	10	1½	5.40

Inserted Tooth Saws

4-E-4205. The mandrel holes on the rough plates are 2 inches in diameter, with 2½ inch pin holes spaced 3 inch, center to center. When ordering be sure to state number of teeth wanted, diameter, gauge at center and at rim, horsepower of engine, r. p. m., while cutting, rip or cross-cut, right or left hand mill. No cancellation of order. One full set of extra Teeth, two Shanks and one Wrench furnished with each saw. Can furnish one gauge heavier or lighter, for same price.

Diam. Ins.	Gauge	Size of Hole, Ins.	No. of Teeth	Price, Each
40	8	2	26	\$ 81.50
42	8	2	28	87.50
44	8	2	30	96.00
46	8	2	32	104.00
48	8	2	34	116.50
50	8	2	36	128.50
52	7	2	38	142.50
54	7	2	40	160.00
56	7	2	42	180.50
58	7	2	44	198.00
60	7	2	46	218.50

Prices of steel bits, extra holders for points and inserted tool wrench on request.

WOOD SAW FRAMES

Separate Parts

Build them Yourself. Here are the Parts, Mandrels, Balance Wheels, Boxes, Pulleys.

We offer for the convenience of those who wish to build their own saw

frames, the following parts:

16-E-2515. Mandrel, 1½ in. in diameter only. Turned down to fit 1½ inch hole in saw. Weight about 35 lbs. Length 49". Price.....**\$3.40**

16-E-2517. Babbitted Bearing Boxes, connected. Weight about 35 lbs. Price per set.....**\$3.40**

16-E-2519. Balance Wheel. Weight 95 lbs. Price each.....**\$7.15**

16-E-2521. Belt Pulley, 5 in. in diameter, 6-inch face. Weight 11 lbs. Price.....**\$1.50**

16-E-2523. Consists of Mandrel shaft complete with balance wheel, boxes and belt pulley. Weight 170 lbs. Price.....**\$13.50**

NOTE—When ordering pulley and balance wheel separately, unless otherwise stated, they will be furnished to fit 1½ inch shaft.

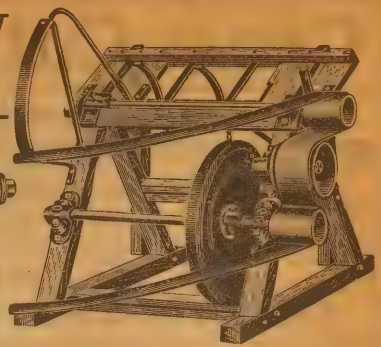
Premier Circular Saws

Made of highest grade crucible steel, tough and perfectly tempered. Carefully made in one of America's leading factories. Accurately ground and filed by hand. Fully guaranteed.

Prices of Rip and Cut-Off Saws

Be sure to state diameter, gauge, hole, lot No., whether rip or cut-off saw, whether for left or right hand mill.

Diameter	Thickness Gauge	Size Hole	Shipping Weight	Price
6	18	¾	7 oz.	\$ 1.48
8	18	¾	1 lb.	1.98
10	16	1	2½ lbs.	2.52
12	15	1	4 lbs.	3.15
14	14	1½	6 lbs.	3.83
16	14	1½	8 lbs.	4.73
18	13	1½	10 lbs.	5.63
20	13	1½	12 lbs.	6.75
22	12	1½	15 lbs.	7.88
24	11	1½	20 lbs.	9.23
26	11	1½	24 lbs.	10.80
28	10	1½	28 lbs.	12.60
30	10	1½	33 lbs.	14.40
32	10	1½	35 lbs.	16.43



Tilting Table Pole Saw Frame

Constructed of fine hardwood. Braced and bolted. Balance wheels on separate shaft, entirely out of the way so that long poles may be sawed. The power is fed direct to saw. Mandrel 1½ inch diameter, turned to fit 1½ inch hole in saw. Pulley 5 inch diameter, 6 inch face. Fitted with 95 lb. balance wheel. Weight, 350 lbs. The prices quoted are F. O. B. factory, near Chicago. Shipped knocked down.

16-E-511. Without saw. Price.....**\$28.00**



4-E-4201

Solid Tooth Rip Saw

Circular Saw Mandrels



Our circular saw mandrels are the highest grade and guaranteed to give satisfactory service. Bearings are extra long and made of specially chilled iron and are well babbitted. The shaft is cold rolled steel.

16-E-530. Pulley in center.
16-E-531. Pulley on right hand side, with left hand thread.

Size	Diam. Pulley	Face of Pulley	Left Shaft	Diam. Shaft	Hole in Shaft	Price Each
0	2	3	16	¾	¾	\$3.45
1	2½	3½	16	1¼	1¼	4.30
2	3	4	19	1½	1½	4.85
3	3½	4½	21	1¾	1¾	7.00
4	4	5	24	1¾	1¾	8.20
5	4½	5½	26	1¾	1¾	9.70
6	5	6	28	1¾	1¾	10.25
7	5½	6½	30	1¾	1¾	10.80
8	6	7	32	1¾	1¾	11.50
9	7	8	37	1¾	1½	13.45
10	8	8	41	1¾	1½	15.35
11	9	10	41	2½	2	23.05

Band Saw Blades

4-E-4427. Made from special tool steel, they are extra flexible and made to stand hard usage.

Wth. Ins.	No. Gauge	Length, feet	10	12	14	16	18	20
¼	21 or 22	\$2.20	\$2.64	\$3.08	\$3.52	\$3.96	\$4.40	
½	21 or 22	2.50	3.00	3.50	4.00	4.50	5.00	
¾	21 or 22	2.80	3.36	3.92	4.48	5.04	5.60	
1	21 or 22	3.50	4.20	4.90	5.60	6.30	7.00	
1½	21 or 22	3.80	4.56	5.32	6.08	6.84	7.60	
2	20 or 19	4.80	5.76	6.72	7.68	8.64	9.60	

Cross Cut Saws

Perforated Lance Tooth Cross Cut Saw



4-E-4101. A general favorite with the lumbermen. Thin back, ground 4 gauges thinner on back than on cutting edge. An easy and fast cutter. Will not bind in the timber. Each saw most carefully tempered, filed and hand set. Guaranteed fully in every particular. Prices do not include handles.
Length, feet..... 5 5½ 6 6½ 7
Price..... \$2.70 \$2.97 \$3.24 \$3.51 \$3.78

Champion Tooth Wide Cross Cut Saw



4-E-4103. Taper ground, thin back, set and sharpened. A strictly first class saw, fully warranted. Prices do not include handles.
Length, feet..... 5 5½ 6 6½ 7
Price..... \$2.31 \$2.55 \$2.77 \$3.00 \$3.23

Champion Tooth Narrow Cross Cut Saw



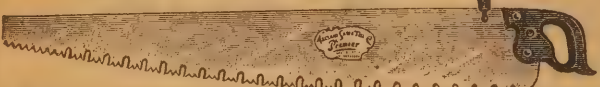
4-E-4105. Properly tempered, set and sharpened. Each saw fully warranted. Prices do not include handles.
Length, feet..... 5 5½ 6 6½ 7
Price..... \$1.35 \$1.48 \$1.62 \$1.77

Champion Tooth One Man Straight Back Cross Cut Saw



4-E-4107. Ground two gauges thinner on back than on cutting edge. Fitted with supplementary handle. You cannot buy a better saw at any price. Guaranteed to give entire satisfaction.
Length, feet..... 3 3½ 4 4½ 5
Price..... \$1.70 \$2.00 \$2.27 \$2.55 \$2.85

American Tooth One Man Straight Back Cross Cut Saw



4-E-4109. Taper ground, thin back. Hand set and filed. A good cutting saw that will give excellent service. Fully warranted.
Length, feet..... 3 3½ 4 4½ 5
Price..... \$1.74 \$2.03 \$2.32 \$2.61 \$2.90

One Man Cross Cut Saw Handles

4-E-4143. Selected beechwood. Varnished edges. Without screws. Price..... 20c
4-E-4145. Supplementary handles, with rivet. Each..... 25c

Steel Ice Tongs

4-E-4147. Drop Forged Steel. Constructed in a superior manner and will handle 200 pounds..... \$1.45

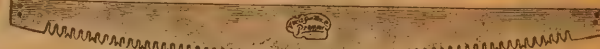
Whiting Pattern Saw Set

4-E-4125. Highest grade steel, properly tempered. Price, each..... 60c

4-E-4151. Reversible Pattern. Per pair... 35c

4-E-4149. Loop Pattern. For two-man cross-cut saw. Per pair..... 32c

Diamond Tooth Cross Cut Saw



4-E-4129. Ground to a true taper. 4 gauges thinner on back than on cutting edge. Prices do not include handles. Fully warranted.
Length, feet..... 5 5½ 6 6½ 7
Price..... \$2.68 \$2.95 \$3.22 \$3.50 \$3.75

Plain Tooth Cross Cut Saw



4-E-4131. Taper ground, thin back. Fully warranted. Prices do not include handles.
Length, feet..... 5 5½ 6 6½ 7
Price..... \$2.30 \$2.56 \$2.78 \$3.03 \$3.25

Champion Tooth Felling Saw



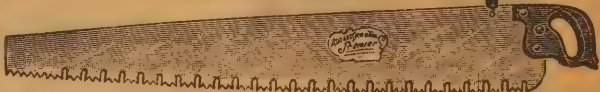
4-E-4133. The best felling saw made. Fully warranted. Prices do not include handles.
Length, feet..... 5 5½ 6 6½ 7
Price..... \$2.32 \$2.57 \$2.80 \$3.05 \$3.27

Perforated Lance Tooth Cross Cut One Man Straight Back Saw



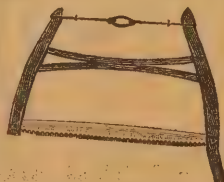
4-E-4135. Ground four gauges thinner on back than on cutting edge. The most popular and fastest cutting saw manufactured. Fully warranted.
Length, feet..... 3 3½ 4 4½ 5
Price..... \$1.96 \$2.28 \$2.60 \$2.92 \$3.26

American Tooth One Man Skew Back Cross Cut Saw



4-E-4137. Taper ground, thin back, properly tempered and hand set and filed.
Length, feet..... 3 3½ 4 4½ 5
Price..... \$1.80 \$2.10 \$2.40 \$2.70 \$3.00

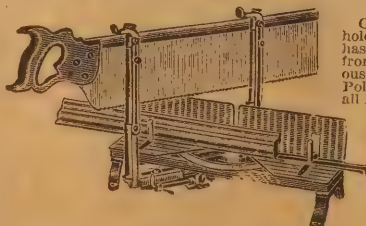
Buck Saws 95c



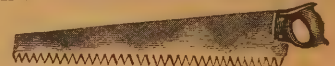
4-E-4111. Selected hardwood frame. Painted red. With tinrod rod, blued clock spring blade, 2½ inches wide, properly tempered. "V" shaped teeth, set and sharpened, ready for use. Fully warranted. Price, each..... 95c

4-E-4113. Extra blades. Price, each..... 50c

Langdon Acme Mitre Boxes



Guides are long; hold the saw steady; has a graded arc in front with the various degrees marked. Polished parts are all Nickel Plated. A high grade guaranteed saw furnished Size No. 1, capacity at right angles 7½, capacity at the Miters 5 inches. Size No. 2, 2½ capacity, at right angles 10½ inches, at Miters 7 inches.
4-E-4901. Size No. 1 with 24x4 inch saw..... \$16.70
4-E-4903. Size No. 2 with 26x4 inch saw..... 18.75
4-E-4905. Size No. 2½ with 28x5 saw..... 20.70
4-E-4907. Size No. 2½ with 30x5 saw..... 21.45



Hand Ice Saw

4-E-4139. For wagon use. Extra crucible steel blade, fitted with iron handles. Each saw is properly tempered and fully guaranteed.
Length, in. 24 26 28 30
Price, each..... \$1.25 \$1.35 \$1.45 \$1.55

Pond Ice Saw

4-E-4141. Superior quality. Made of the best crucible saw steel, properly tempered, tapering, 7 inches at the butt and 5 inches wide at the point. Fully warranted.
Length, feet..... 4 4½ 5
Price, complete with tiller handle..... \$3.50 \$3.80 \$4.15



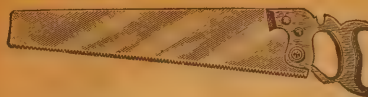
Adjustable Bench Stop
4-E-4153. Instantly adjustable to any position. Reversible head can be raised 2 inches above bench. Price..... 88c



Adjustable Bench Stop
4-E-4127. Reversible screw adjustment. Cast steel head. May be raised by means of adjusting screw. Price..... 75c

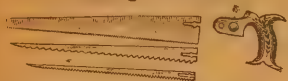
High Grade Hand Saws!

Saws furnished in either straight or skew back.



Nail Cutting Saw
4-E-4835. Will cut nails, pipes, bolts, soft sheet metal. Can be filed but does not require setting, being taper concave ground.
 Length of blade, 18 inches. Price... **\$2.45**

Jennings' Saw Kit



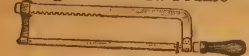
4-E-4837. Consists of one 14-inch nail cutting, one 14-inch compass blade, one 12-inch keyhole blade. Adjustable handle. Blades interchangeable. Price... **\$2.15**

Best Compass Saw



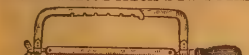
4-E-4815. Thin back evenly tempered. Full bevel, filed and set. Beechwood handle, two screws.
 Length, inches..... 12 14 16
 Price..... **45c 50c 60c**

Rigid Hack Saw Frame



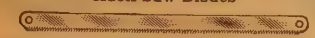
4-E-4953. Heavy steel nickel plated frame, adjustable to take blade from 10 to 12 inches. Price, with one 10-inch blade... **\$1.75**

Nickel Plated Hack Saw Frame



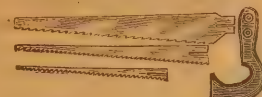
4-E-4935. Adjustable for blade at four angles, takes blades 8 to 12 inches. Price, each, complete with one 8-inch blade... **39c**

Hack Saw Blades



Fast cutting Hack Saw Blade, made of special high carbon steel, properly tempered and are guaranteed to give first-class satisfaction. Suitable for cutting tool steel and other metals.
4-E-4937. Length, ins... 8 9 10 12
 Price, per dozen... **40c 45c 63c 75c**

Nest of Saws



4-E-4839. Consisting of one 14-inch Panel saw, one 14-inch compass saw, one 12-inch keyhole saw. All interchangeable. Price... **\$1.05**

Common Compass Saw



4-E-4813. Made of good grade cast steel. Spring tempered, filed and set. Beechwood handles.
 Length, inches..... 12 14
 Price..... **20c 22c**

Miter Box Saws



4-E-4913. Made from high grade tool steel, hand filed, set ready for use, heavy back. Width of blade under back 4 inches.
 Length, in. 22 24 28
 Price, each **\$2.85 \$3.05 \$3.45**

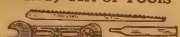
Steel Frame

Coping Saw

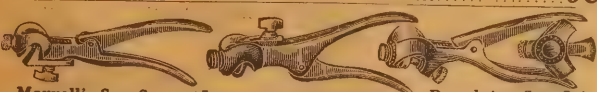
4-E-4817.

Nickel-plated steel frame. Depth of cut 4 inches. Complete with 13 6-inch tempered steel blades. Price... **20c**

Handy Kit of Tools



4-E-4931. Consisting of keyhole saw and pad, chisel, screw driver, two wrenches, awl, bit handle. Per set... **9c**



Morrell's Saw Set

4-E-4919. Morrell's saw set for hand saw, board and jig saw has hardened steel anvil plunger. Price... **60c**

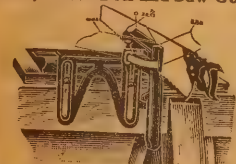
Improved Anvil Saw Set

4-E-4921. The anvil and plunger are hardened. The spring is of tempered steel, polished nickel-plated finish; weight, 10 ounces. Price, each... **90c**

Revolving Saw Set

4-E-4923. Shows the required bevel and length of all saws ranging from 4 to 16 teeth to the inch. Figure on dial indicates number of teeth to the inch and always finish. In sight. Price... **\$1.25**

Seavey Miter Box and Saw Guide



4-E-4911. Adjustable to cut square or at an angle of 22½, 30 and 45 degrees. Panel or hand saw may be used with this guide. Price, without saw... **\$2.80**

Adjustable Saw Filing Guide



4-E-4947. Used for filing saws with any style bench vice, can always be used in connection with the regular saw vise, adjustable to file at any angle any bevel and exact depth. Japanese finish. Price, complete, with file... **\$1.75**

Perfection

Pattern

Miter Box

4-E-4909.

A strong, serviceable, miter box. Saw guide can instantly be set at angle 22½, 30 and 45 degrees. Back saw, panel or hand saw can be used. Weight, 9 pounds. Price... **\$5.00**

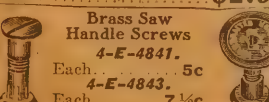


Saw Filing Guide and Vise

4-E-4949. The ball and socket which connect the clamp to the vise permit the clamp to be turned in either direction. Jaws are 10½ inches rubber faced, which hold the saw firmly. Price... **\$2.90**

Brass Saw Handle Screws

4-E-4841. Each... **5c**
4-E-4843. Each... **7½c**



Beechwood Saw Handles

4-E-4819.

For hand and rip saws.

Price, each... **20c**

4-E-4821.

For panel saws. Each... **17c**



PREMIER HIGH GRADE
 Made of Spring Steel
 Cut by special machine
 Hand filed and set
 Saws are made in England
 ASHLAND SAW & TOOL CO.
 CHICAGO, ILL.

The blades are of special refined spring steel, perfectly tempered, full taper ground, thin back. The teeth are full beveled, hand filed and hand set and will hold a fast cutting edge. The handles are correct in shape, giving the proper hand. 26 and 28 inch saws have five brass screws and the smaller sizes have four.

4-E-4823. Premier extra high grade skew back, panel or hand saws.		4-E-4826. Skew back Premier extra high grade rip saws.	
Length	Points to the inch	Length	Points to the inch
18 in. panel.	9, 10, 11 or 12.....	24 in.	5, 5½, 6 or 6½.....
20 in. panel.	9, 10, 11 or 12.....	26 in.	5, 5½ or 6.....
22 in. panel.	9, 10, 11 or 12.....	28 in.	4, 4½, 5, 5½ or 6.....
24 in. hand.	8, 9, 10 or 11.....		
26 in. hand.	7, 8, 9, 10 or 11.....		
28 in. hand.	6, 7 or 8.....		

Premier Hand Saws

Premier Saws are hand made, hand smithed, hand blocked, hand filed and hand set. Every detail in the manufacture is perfect.

4-E-4801. Premier extra high grade straight back, panel or hand saws.		4-E-4803. Premier extra high grade straight back, rip saws.	
Length	Points to the inch	Length	Points to the inch
18 in. panel.	9, 10, 11 or 12.....	24 in.	5, 5½, 6 or 6½.....
20 in. panel.	9, 10, 11 or 12.....	26 in.	5, 5½ or 6.....
22 in. panel.	9, 10, 11 or 12.....	28 in.	4, 4½, 5, 5½ or 6.....
24 in. hand.	8, 9, 10 or 11.....	30 in.	4½ or 5.....
26 in. hand.	7, 8, 9, 10 or 11.....		
28 in. hand.	6, 7 or 8.....		

"Chicago Special" Hand Saws

The best general purpose saw ever offered. Made of high grade crucible saw steel, smithed and blocked by hand. Full taper ground, thin back. Teeth are full beveled, hand filed and hand set.

4-E-4805. Chicago Special panel or hand saws.		4-E-4807. Chicago Special rip saws.	
Length	Points to the inch	Length	Points to the inch
18 in. panel.	9, 10, 11 or 12.....	24 in.	5, 5½, 6 or 6½.....
20 in. panel.	9, 10, 11 or 12.....	26 in.	5, 5½ or 6.....
22 in. panel.	9, 10, 11 or 12.....	28 in.	4, 4½, 5, 5½ or 6.....
24 in. hand.	8, 9, 10 or 11.....		
26 in. hand.	7, 8, 9, 10 or 11.....		
28 in. hand.	6, 7 or 8.....		

Favorite Hand Saws

Made of good grade saw steel, set sharpened and ready for use. Hardwood handle, brass screws.

4-E-4809. Favorite panel or hand saws.		4-E-4811. Favorite rip saws.	
Length	Points to the inch	Length	Points to the inch
22 in. panel.	10 or 12.....	26 in.	5½ or 6.....
24 in. hand.	8, 9 or 10.....	28 in.	5, 5½ or 6.....
26 in. hand.	8, 9 or 10.....		

C. E. Jennings & Co.'s No. 70½ Narrow Blade Hand Saws

Ground thin on back and guaranteed to run without set.

4-E-4827. Jennings' No. 70½ panel or hand saws.		4-E-4829. Jennings' No. 70½ rip saws.	
Length	Points to the inch	Length	Points to the inch
22 in. panel.	10, 11 or 12.....	26 in.	5 or 6.....
24 in. hand.	8, 9 or 10.....	28 in.	4½, 5, or 5½.....
26 in. hand.	7, 8, 9 or 10.....		

Genuine Henry Disston Hand Saws

Disston "D" 8 hand hammered Saws. The best known popular brand saw on the market. Spring steel patent ground and tempered. Skew back, applewood handle.

4-E-4831. 26 in. Hand saw	4-E-4833. 28 in. Rip Saw.
8, 9 or 10 points. Price... \$5.70	5 or 5½ points. Price... \$6.00



Cross Cut Saw Tool

4-E-4945. Cross cut saw filer jointer tooth gauge cutting block. A tool that keeps cross cut saws in perfect condition. Price, with file and directions... **38c**

Saw Jointer and Skate Sharpener



4-E-4917. Adjustable to any thickness, saw blade can be used with any file. Price, each... **50c**



Adjustable Saw Vise

4-E-4925. For attachment to work bench this vise has a malleable iron screw clamp and lever and can to hold it in position. Width of jaws, 9½ inches. Japanned finish. Weight, ½ pounds. Price... **\$1.00**

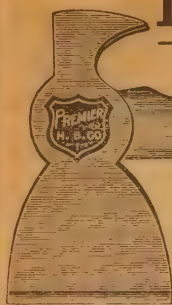
Ball and Socket Saw Vise



4-E-4941. The reliable ball and socket saw vise is adjustable with bench clamp and can be set at any angle. Length of jaws, 9½ inches. Japanned finish. Weight, 9 pounds. Price, each... **\$1.59**

Dependable Tools

Strictly first quality, guaranteed to be perfect in material, workmanship and finish, and to give absolute satisfaction. Especially adapted for mechanics' use; forged from high grade steel, carefully tempered. Handles are selected white hickory, properly balanced and shaped.



4-E-5003. Premier claw Hatchet.

Size	W'th of Bit, In.	Wt. Oz.	Price
2	3 3/4	25	\$1.55



4-E-5001. Premier Shingling Hatchets.

Size	W'th of Bit, In.	Wt. Oz.	Price
1	3 3/4	3 3/4	4 3/4
2	17	23	29
3	12 1/2	14 1/2	15
4	12 1/2	17	13



4-E-5007

Premier High Grade Lathing Hatchets.

No. In.	Wt. oz.
Size 12 1/2	14 1/2
Size 22 3/4	17
Size 17	13



4-E-5011. Premier Special Bell Poll Shingling Hatchet.

Size	W'th of Bit, In.	Wt. oz.	Price
1	3	16	\$1.60



4-E-5029

Forged from extra tool steel, properly tempered, full polished. Width of bit, 2 in. Weight, not including handle, 13 oz. Price.....\$2.35



4-E-5013

Size	W'th of Bit, In.	Wt. oz.	Price
2	4 1/2	17	\$1.50



4-E-5009

No. In.	Wt. oz.	Price
2 1/2	13	\$1.75
3 1/2	21	2.00
4 1/2	23	2.20
5 1/2	3	2.40

Broadaxes



4-E-5127

Round corner Canada pattern Broadaxes. Made of high grade steel, properly proportioned. Ready for use. Handles not included. Wt., lbs. 6 7 7 1/2 8 Wt., cut in.... 10 1/2 11 1/2 12 12 1/2 Each. \$6.36 6.66 6.90 7.02

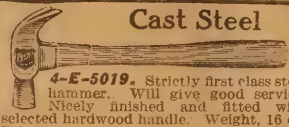
Carpenters' Adzes

4-E-5025

Forged from high grade steel. Has fine cutting edge, properly tempered. Handles not included. Weight Lbs. 3 3/4 3 3/4 4 4 1/2 Price \$1.30 \$1.80 \$1.80



Cast Steel



4-E-5019. Strictly first class steel hammer. Will give good service. Nicely finished and fitted with selected hardwood handle. Weight, 16 oz. Price.....37c

Holding Hammer



4-E-5035. With groove on side to hold nails size 10 penny and smaller. Made of the highest crucible steel and properly tempered. Second growth hickory handles properly fitted and wedged to head. Fully guaranteed. Weight, 19 ounces, not including handle. Price.....\$1.67

Bell Face



4-E-5037. Made of high grade crucible steel, properly tempered, with second growth hickory handle properly fitted and wedged to head. Every hammer fully guaranteed. Weight, 20 oz. 16 oz. 13 oz. 7 oz. Price \$1.15 \$1.10 \$1.05 \$1.00

Nail Hammer



4-E-5033. Forged from extra tool steel, carefully tempered. Octagon poll, full nickel plated finish. Carefully selected handles. Size 1 1 1/2 Wt., not including handle, lbs. 1 1/4 1 1/2 Price.....\$1.60 \$1.55

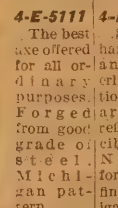
Ever Ready Handled Axes



4-E-5115. Ever Ready axes are carefully forged, properly shaped and finished in a superior manner. Handles are hickory stained, properly fitted to axe. A better axe at a lower price than ever before offered. Each and every axe guaranteed. Weight.....3 lbs. 3 1/2 lbs. 4 lbs. 4 1/2 lbs. Price.....\$2.20 \$2.25 \$2.30 \$2.35

Single Bit Axes

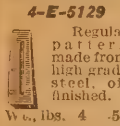
Double Bit Axes



4-E-5111 **4-E-5117**
The best. Strictly axe offered hand forged for all ordinary purposes. Forged from good refined crucible steel. Natural Michi-ligan pattern.

Weight	Price	Weight	Price
3 lbs.	\$1.68	4 lbs.	\$2.34
3 1/2 lbs.	1.74	4 1/2 lbs.	2.40
4 lbs.	1.80	5 lbs.	2.46
4 1/2 lbs.	1.86		
5 lbs.	1.92		

Woodchoppers' Wedges



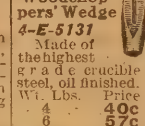
4-E-5129
Regular pattern made from high grade steel, oil finished. Wt., lbs. 4 -5 Price... 35c 43c

Malleable Iron Axe Wedge



4-E-5121
Made with a screw, which prevents handle from pulling out. Price, each.....3c

Truckers' Pattern Woodchoppers' Wedge



4-E-5131
Made of the highest grade crucible steel, oil finished. Wt. Lbs. Price 4 40c 6 57c 8 76c

Saw Wedges



4-E-5133
Tool steel, oil finished. Wt., lbs. 1 1/2 Price... 13c

Adjustable Plane Gauge



4-E-5279. For Planing Bevels of any angle or square joints, without use of a tri-square or bevel. Can be quickly attached or removed. Price.....\$1.10

Oregon Pattern Mauls



4-E-5135
Wt. Lbs. Price 6 50.77 8 52.92 10 55.07 12 57.23

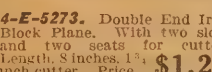
Iron Block Planes



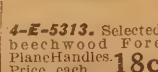
4-E-5273. Double End Iron Block Plane. With two slots and two seats for cutter. Length, 8 inches, 1 1/4 inch cutter. Price \$1.20



4-E-5313. Selected beechwood Fore Plane. Length, 14 inches, 1 1/4 inch cutter. Price, each.....18c

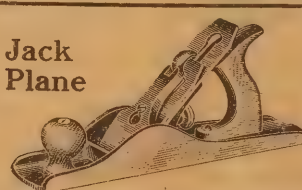


4-E-5265. Iron Block Plane, 5 1/2 inches long, 1 1/4 inch cutter. Price.....60c



4-E-5267. Iron Block Plane, 7 inches long, 1 1/4 inch cutter. Price.....84c

Jack Plane



The castings are made of special gray iron. The bottoms of the planes are as smooth. The cutters are made of the highest grade steel. Fitted with an adjusting lever. Handles and knobs are genuine mahogany. Smooth bottom iron jack plane 14 inches long, 2-inch cutter. **4-E-5260.....\$3.00** **4-E-5262.** Corrugated bottom.....\$3.10



4-E-5311
Selected beechwood jack pine handles. Price, each 12c



Adjustable Iron smooth plane, 9 inches long, 2-inch cutter. **4-E-5201.** Smooth bottom. Price.....\$2.50 **4-E-5203.** Corrugated bottom. Price.....\$2.60



4-E-5277. Knuckle Joint Improved Throat Adjuster. 6 1/4 inches long, 1 1/4 inch cutter. Price.....\$1.85



4-E-5271. Adjustable Block Plane, 7 inches long, 1 1/4 inch cutter. Price.....\$1.25

Socket Corner Chisel



4-E-5617. Properly tempered; selected Hickory handles, with iron ring on end to prevent splitting. Size, inches..... 1/4 1 Price, each..... 80c 86c

Plain Edge Chisel



4-E-5607. Made of special high grade steel, carefully tempered. Handles White Hickory, leather tips. Size, inches..... 1/4 1/2 3/4 1 1 1/2 2 2 1/2 3 Price, each..... 40c 41c 42c 43c 45c 46c 47c 48c 50c 51c 52c 56c 59c 75c 89c

Beveled Edge Socket Framing Chisel



4-E-5609. Crucible Steel; tempered. Hickory handle with iron rings. Size, inches..... 1/4 1/2 3/4 1 1 1/2 2 2 1/2 3 Price, each..... 60c 62c 65c 72c 74c 76c 78c 80c 82c 84c 86c 88c 90c 92c 94c 96c 98c 100c

High Grade Socket Butt Chisels



Length of blade about 3 1/2 inches. Leather tip; solid Hickory handle. Length, in. 1 1 1/4 1 1/2 1 3/4 2 **4-E-5655.** Price, each..... 55c 58c 60c 75c 80c



4-E-5636. Narrow blade, made from crucible steel. Tangs will not pull out. Size, inches..... 8 10 12 Price, each..... \$1.40 1.65 1.90

Chisel Handles



4-E-5643. Selected hickory, with iron rings on end to prevent splitting. Price, each..... 5c

High Grade Beveled Edge Leather Tip Socket Firmer Chisel



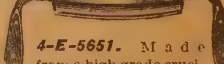
4-E-5601. Made of the best steel. Handles are of select White Hickory, leather tip. Size, inches..... 1/4 1/2 3/4 1 1 1/2 2 2 1/2 3 Price, each..... 45c 46c 47c 48c 50c 51c 52c 53c 54c 55c 56c 57c 58c 59c 60c 61c 62c 63c 64c 65c 66c 67c 68c 69c 70c 71c 72c 73c 74c 75c 76c 77c 78c 79c 80c 81c 82c 83c 84c 85c 86c 87c 88c 89c 90c 91c 92c 93c 94c 95c 96c 97c 98c 99c 100c

Chisel Handles



4-E-5625. Selected hickory, 3 layers, best oak tan leather. Price, each..... 6c

Drawing Knives



4-E-5651. Made from a high grade crucible steel, properly ground and tempered. Tangs will not pull out. Length, in. 8 10 12 Price, each \$1.20 \$1.30 \$1.60

Ball Bearing Ratchet Bit Brace

4-E-5331. Best ratchet brace. It has solid steel chucks. Hardened jaws. Will hold any size shank. $\frac{1}{2}$ inch steelsweep nickel-plated ball bearing head polished cocobola head and handle, steel enclosed frame.

Sweep	Price	Sweep, in inches	8	10
8 inches	75c	Price, each	\$4.00	\$4.10
10 inches	80c	Price, each	\$4.20	\$4.30

Ship Auger Bits

4-E-5449. For boring hardwoods and end boring. Made of double refined steel, finely finished. Have 4 to 6 inch twists.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	30c	36c	45c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	48c	50c	55c

Car Bits

4-E-5451. For boring heavy timbers. Length of twist, 12 inches.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	31c	33c	35c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	43c	55c	60c

Countershank Gauge Bit

4-E-5533. To regulate depth of cut. For wood only. High grade tool steel. Fully warranted. Price, each, 32c

Goodell's Ratchet Screw Driver

4-E-5557. Blades, dogs and spring made of a high grade tool steel. The ratchet teeth are deeply cut. Changes from right to left are made by simply turning the knurled ferrule. Length, blade, inches. 4 5 6 8 10

Price, each	90c	97c	\$1.00	\$1.10	\$1.25
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Pratt's Ratchet Drill

4-E-5341. Used as an auger handle in horizontal position. For use in close places. One handle can be removed and placed at right angles. Can also be used as a ratchet drill. Price, each, \$3.25

Drill attachment for Goodell's Interchangeable Screwdrivers

4-E-5553. Fitting Automatic Screwdriver. No. 4-E-5549. Price, for chuck and eight drill points, 85c

4-E-5555. Fitting Reversible Screwdriver. No. 4-E-5551. Price, for chuck and eight drill points, 85c

Indestructible Square Shank Screwdriver

4-E-5543. Squareshank for use with wrench. Blade, shank and head are forged from a solid piece of high grade tool steel. Handles hardwood.

Length of blade, inches	3	4	6	8	10
Size, sq. shank, inches	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	21c	27c	37c	49c	61c

Square Reamer Bits

4-E-5537. Cast steel, properly tempered and ground. Price, each, 22c

Goodell's Automatic Interchangeable Screwdriver

4-E-5549. Can be used as a spiral ratchet or plain screwdriver. Furnished with three forged steel bits. Hardwood handle. Length extended 14 inches. Length, closed $7\frac{1}{2}$ inches. Price, each, \$1.60

Goodell's Reversible Interchangeable Screwdriver

4-E-5551. With two distinct spirals. Hardwood handle, furnished with three forged steel bits; length extended, $16\frac{1}{2}$ inches; length closed, 9 inches. Price, each, \$2.25

Jennings' Extension Lip Bits

4-E-5433. Jennings' Solid Center Extension Lip Auger Bits. Solid Center Auger Bits. Hand forged from double refined crucible steel, full length of twist.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	47c	49c	50c	52c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	66c	67c	70c	78c

4-E-5425. Best Jennings' Pattern Extension Lip Auger Bit. Properly tempered, full length of twist. Lips are carefully forged and sharpened.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	39c	40c	41c	42c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	55c	57c	64c	65c

4-E-5441. For rapid and easy boring in the toughest hardwoods. Tempered and finished in the finest manner.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	49c	51c	52c	54c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, each	62c	69c	72c	80c

Ratchet Brace

4-E-5337. Ball bearing dust-proof head. Machine made thruout. Cold drawn steel sweep. All metal parts highly polished and heavily nickel plated and nicely finished throughout. Cocobola head and handle with improved metal capped head. Forged alligator spring jaws. Will take square or round shank drills.

Sweep, inches	8	10	12
Price, each	\$3.75	\$3.80	\$3.95

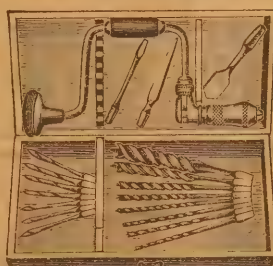
Clark's Expansion Bits

Cutters are made of high grade tool steel properly tempered.

4-E-5509. Small size Clark's Pattern Expansion Bit. With two cutters, one boring from $\frac{1}{2}$ to $\frac{3}{4}$ in., the other from $\frac{3}{4}$ to $1\frac{1}{2}$ in. Price, each, \$1.35

4-E-5511. Large size Clark's Pattern Expansion Bit. With two cutters, one boring from $\frac{1}{2}$ to $1\frac{1}{2}$ in., the other from $1\frac{1}{2}$ to 3 in. Price, each, \$1.95

Brace and Bit Set



bits; 1 screw driver bit; 1 countersink and 1 square reamer. Put up in a neat hardwood box. Price, per set, \$9.95

Champion Screw Driver

4-E-5545. Blades are forged from the highest grade steel, properly tempered and fastened securely in handle. Selected hardwood handle, cherry finish.

Length of blade, inches	3	4	5	6	8	10
Price, each	27c	28c	30c	35c	45c	56c



4-E-5329. Ratchet brace. Metal clad head, cold drawn steel sweep. Ebonized hardwood head shank drills. Nickel plated.

Sweep	Price
10 inches	\$2.85
12 inches	2.95



4-E-5315. Ball bearing head and forged steel jaws. Will hold straight, round shank drills. By removing the hand drill attachment you have a fine ball bearing ratchet brace 10 in. sweep. Nickel plated. Price, each, \$6.25

Common Auger Bits

4-E-5401. Spur Standard.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	27c	28c	29c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	31c	36c	37c
Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$
Price, each	40c	44c	45c

Countershank & Dowel Pointer

4-E-5523. Reversible head. Can be used for sharpening pins or dowels. Cutter made of high grade tool steel. Price, each, 15c

4-E-5541

The only screw driver that can be used as a hammer, to force point of screw into the wood. The blade, bolster handle, flattened hammer hand are drop forged from one piece of steel.

Length of blade, inches	4	6	8	10
Price, each	29c	40c	54c	68c

Hand Drill

4-E-5547. Strong Malleable frame. Steel spindle, cut gears and hollow cut cocobola handle containing 8 drill points, $\frac{1}{4}$ to $1\frac{1}{4}$ inch. A strong, durable tool, nicely finished. Length 10 $\frac{1}{4}$ inches. Price, including 8 drill bits, \$2.85

Breast Drill

4-E-5333. Ball bearing with level attachment. 6 inch drive wheel. Drill from $\frac{1}{2}$ to $\frac{3}{4}$ inch. Price, each, \$5.75

Ball Bearing Breast Drill

4-E-5317. Malleable frame changeable gear from even to speeded about 3 to 1 with level attachments. Drill bits up to 3 inches. Price, \$4.50

Plane Irons

Made of high grade steel. All double irons have steel caps.

4-E-5301. All iron and wood bottom planes. Single Irons.

Width, in inches	2	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3
Price	25c	27c	32c	35c

Screw Driver Bits

4-E-5525. High grade tempered crucible steel.

Size	Sm.	Med.	Lge.	Ex.
Price	17c	18c	19c	20c

German Gimlet Bits

4-E-5559. Special high grade steel, properly tempered. Size, 2-32; 3-32; 4-32; 5-32; 6-32; 7-32; 8-32; 10-32. State size. Any size, each, 14c

Champion Screw Driver

4-E-5547. High grade crucible steel. Selected hardwood handles, steel ferrules.

Length of blade, inches	10	12
Price, each	20c	49c

4-E-5703. No. 100-C. Copper finished steel square, heavily copper plated, practically rust-proof; hardened steel corners, figures and graduations are white enamel and stand out clear and distinct. Size of body, 24x2 inches; size of tongue, 16x1 1/2 inches; face marked 1-16, 1/8 and 1/4 inch spaces; back marked 1-100, 1-32, 1-2, 1-10 and 1-4 inch spaces. Has Essex board measure, eight square and brace measure, fully warranted. Price..... **\$2.35**

Nicholls Take-Down Square

Nicholls take-down square. What every mechanic has long desired. Occupies space 4x24 inches and is absolutely accurate and thoroughly practical. Tongue and groove is accurately milled to fit tight and make a perfectly true joint. Has no bolts or screws to become loose or lost. The spring takes up any wear. Long bearings in grooves combined with the square shoulders insure an accurate fit. Size of body, 24x2 inches. Size of tongue, 16x1 1/2 inches. Face marked 1-16 and 1-4 inch spaces; back marked 1-12 and 1-4 inch spaces. Has Essex board measure and brace measure. Figures and graduations are deep and plainly marked. Fully warranted.

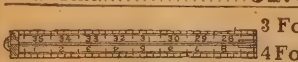
4-E-5725. Blued finish with canvas case. Price..... **\$3.90**

4-E-5727. Polished finish with canvas case. Price..... **\$3.50**

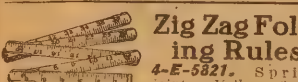
Oxidized Copper Finish Squares



4-E-5701. No. 100 R. O. C. Oxidized copper finished square. The graduations and figures are white enamel. Rust-resisting finish. Has hardened corners. Body, 24x2 inches; size of tongue, 16x1 1/2 inches. 1-16, 1-8 and 1-4 spaces; on back, 1-32, 1-12 and 1-10 spaces. Has brace measure eight square, 1-100 scale and rafter table. Price..... **\$2.75**



4-E-5815. Arched joints, middle plates. Spaced 8ths and 16ths..... **50c**



4-E-5821. Spring joints. Yellow, brass, metal tips.

Length, feet..... 3 4 5 6
Price..... **20c 27c 33c 45c**

Double-End Wrenches



4-E-6815.

Size No.	Size Bolts of U. S. Stand. Nut	Extreme Length	Price, Each
23	3/8 to 1/2	4	\$0.13
25	1/2 to 5/8	4 1/2	.16
26	5/8 to 3/4	5	.20
28	3/4 to 7/8	5 1/2	.24
29	7/8 to 1	6	.28
30	1 to 1 1/8	7 1/4	.32
31	1 1/8 to 1 1/4	7 3/4	.36
34	1 1/4 to 1 3/8	9 3/4	.43
37	1 3/8 to 1 1/2	11 3/4	.50
38	1 1/2 to 1 3/4	13 3/4	.56
39	1 3/4 to 2	15 3/4	.62
40	2 to 2 1/8	17 3/4	.70
41	2 1/8 to 2 1/4	19 3/4	.78

"S" Wrenches



Stand. Nut Size Bolt	Size of Opening	Extreme Length	Price, Each
3/8 and 1/2	3/8 and 1/2	6 1/4	17c
1/2 and 5/8	1/2 and 5/8	7 1/4	23c
5/8 and 3/4	5/8 and 3/4	8 1/4	29c
3/4 and 7/8	3/4 and 7/8	9 1/4	36c
7/8 and 1	7/8 and 1	10 3/4	47c

4-E-6819. Price, per set of five wrenches..... **\$2.50**

Tubular Rivets

4-E-6151. Put up in one size only. 100 in a package. Price, per box:

1/4 inch.....	20c	1/2 inch.....	31c
3/8 inch.....	23c	5/8 inch.....	33c
1/2 inch.....	25c	3/4 inch.....	35c
5/8 inch.....	27c	1 1/4 inch.....	39c
3/4 inch.....	29c	1 1/2 inch.....	39c



Carpenters' Squares



Metal Try Squares

4-E-5743. A first class tool at a moderate price. Steel blade, graduations accurately marked. Nickel-plated iron handles, fully warranted. Size represents length of blade.

Size, inches	6	8	10	12
Price, each	50c	56c	75c	90c

Combined Try and Miter Square

4-E-5741. Brass lined rosewood handle, steel blade. Graduations plainly and accurately marked. Size represents length of blade.

Size, inches	4 1/2	6	7 1/4	9
Price, each	32c	52c	69c	75c

Plumb and Level

4-E-5715. Brass arch top plate, two side views, proved glasses. Fully warranted. Lengths, 26, 28 and 30 inches. State length wanted. Price..... **\$1.05**

Level Sights

4-E-5767. Can be readily attached to any wood level with which the user has accurate means of leveling from one given point to another at a long distance. Price, per pair..... **85c**

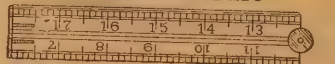
4-E-5758. Level sights for iron levels. Price, per pair..... **75c**

Six-Inch Two-Fold Caliper Rule



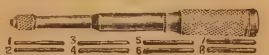
4-E-5819. Square joint. Spaced 8ths, 10ths, 12ths and 16ths. Width, 3/4 inch. Price..... **29c**

Two-Foot Four-Fold Boxwood Rule



4-E-5801. Round Joint and Middle Plates. Spaced 8ths and 16ths. Price..... **18c**

Goodell's Hand Drill



4-E-5853. Handle and Chuck Knurled. Nickel plated. Drill points in separate hollow handle. Drill points cannot be pulled out. Price includes 8 drill points 1-16 to 11-64th inch. Length, 10 1/2 inches. Price..... **\$1.95**

Eccentric Clamps



4-E-5859. Heavy steel bar. Inches..... 12 18 24 36 48
Price..... **\$1.26 \$1.58 \$1.80 \$2.25 \$2.70**

Bench Screw



4-E-5847. Lathe cut threads, movable collars, hardwood handles.

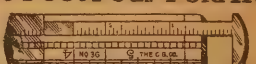
Diam., ins.	1	1 1/4	1 1/2	1 3/4
Length, ins.	16	16	17	18
Price, each	80c	95c	\$1.00	\$1.50

Goodell's Automatic Hand Drill



4-E-5861. Nickel plated. Length, 10 inches; drill points, from 1/4 to 1 1/4 inch. Price..... **\$1.60**

One-Foot Four-Fold Rule



4-E-5817. Caliper Rule. Has arch joint, full brass bound. Spaced 8ths, 10ths, 12ths and 16ths. Price..... **60c**



4-E-5869. Cabinet Makers' Clamp Attachment. Will fit wood bar 1 1/2 x 2 1/2 inches. Fitted with 3/4 inch screw and crank handle. Price, with out bar, each..... **\$1.05**



4-E-5867. Has heavy "T" shaped steel bar. Size, 1 1/2 by 1/4 inches. Opens, feet..... 2 1/2 3 4 5
Price, pair..... **\$3.90 \$4.00 \$4.40 \$5.00**



Drop Forged Pliers

4-E-6137

Perfection side cutting pliers. Raised cutting edges. Price, per pair: 6 ins. **80c**



Gas Pliers

4-E-6113

Best grade drop forged gas pliers. Carefully tempered and fitted with polished jaws. Price, per pair: 7 inches..... **25c** 8 inches..... **30c**



Utility Wire Cutting Pliers

4-E-6119

Made of good quality steel and nicely polished. Price, 5 1/2 inches..... **12c**



Flat Nose Pliers

4-E-6129

Forged from ericible steel, finished. Price, 4 inches..... **8c** 5 inches..... **10c**



Standard Button Plier

4-E-6111

Drop forged. Has 2 cutters. 6 inches..... **54c** 8 inches..... **68c** 10 ins..... **88c**



Combination Fencing Pliers

4-E-6103

Combines all tools - hammer, staple puller, wire pliers. Price: 10 ins..... **\$1.25**



Combination Pliers, wire cutters, screw driver and wrench, Nickel plated.

4-E-6109

Price, pair..... **6 1/2 ins. 25c**

8 Tools in 1



4-E-6101.

8 tools in 1. Staple Puller, Wire Cutter, Hammer, Placers, Wrench, Wire Trier, Wire Stretcher, Pipe Grip. Length, 10 inches. Price..... **\$1.30**

Combination Punch and Riveter



4-E-6141. Punches or rivets on the downward stroke. A good substantial tool, made of the toughest grade iron, tempered steel punches, adjustable rivet set for tubular or split rivets, with hand finish or polished handle. Price, Each..... **\$1.05**

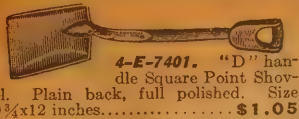
Drop Forged Grip Wrench

4-E-6235. Made of tool steel. Will grip any surface from 1/4 to 1 inch in diameter. Has 3 dies in center. Will retread bolts, sizes 1/4, 3/8 and 1/2. Price, each..... **60c**



Handy Lever Riveter

4-E-6147. For tubular rivets only. The screw is on the lever; pull down the lever - the hole is punched and the rivet is clinched. Both done in one operation. Price, each..... **50c**



4-E-7401. "D" handle Square Point Shovel. Plain back, full polished. Size 9½x12 inches..... **\$1.05**



4-E-7405. "D" Handle Square Point Spade. Plain back, full polished. Size, 7½x12 inches..... **\$1.05**



4-E-7409. "D" Handle Coal Shovel. Hollow back. Natural Forged Finish. Size, ins. 13½x14 14½x14½ 14½x15½ Price... **\$1.20 \$1.25 \$1.30**



4-E-7413. Ditching or Tiling Spade. Specially adapted for mucky and sticky soil. Fully warranted. Size, 6x18 inches..... **\$3.45**



4-E-7419. Long Handle Square Point Shovel. Plain back, full polished. Size, 9½x12 inches..... **\$1.05**



4-E-7423. Long Handle Square Point Spade. Plain back, full polished. Size, 7½x12 inches..... **\$1.05**



4-E-7427. Steel Snow Shovel. Long Handle. Light, strong and durable. Makes an excellent general purpose shovel. Superior quality. Fully warranted..... **80c**



4-E-7433. Spading Fork. For handling and screening dirt from potatoes, heavy beets and other vegetables. Special crucible steel tines. Plain Ferrules..... **95c**



4-E-7437. Square Point Shovel. Best crucible steel, solid socket, full polished blade, 9½x12 inches..... **\$2.50**



4-E-7441. Long Handle, Round Point. Best crucible steel, solid socket, full polished blade, 9½x12 inches.. **\$2.50**



4-E-7417. Cast iron Post Mauls. Full weight, width 3-foot, hickory handles. Weight, lbs. 10 13 16 18 20 Price..... **60c 78c 96c \$1.08 \$1.20**



Eureka Post-Hole Diggers

4-E-7445. Nothing better of its kind made. 9-inch cast steel blade, properly tempered, malleable iron shank, selected split, hardwood handles. Length, 5 feet, weight, about 9 lbs..... **\$1.45**

Extra Broad Leather Handle Trowels

4-E-6221 Hammered from solid bar crucible cast steel, carefully tempered and properly ground. 11-inch size is about 6 inches wide; other sizes in proportion. Size, inches. 10 10½ 11 Price, each. **\$1.40 \$1.47 \$1.50**



4-E-6219 Made of high grade steel, well finished, properly shaped and fully guaranteed. Size, inches. 10 10½ 11 Price, each. **77c 80c 83c**



Cincinnati Plastering Trowel

4-E-6261 Guaranteed to suit the most critical workman. Hammered from a solid bar highest crucible steel, tempered tough and hard. Accurately ground. Size, inches. 10½ 11 12 Price, each. **\$1.31 \$1.37 \$1.47**



Brick Hammer

4-E-6257 Forged from high grade tool steel, tempered and properly balanced. Guaranteed to be strictly first class. Wt. of hammer, 2 lbs. Fitted with 12-inch selected handle. Price..... **\$1.20**



Single Face



Double Face

Spaulding Hammers

Solid cast steel. Polished faces. Handles not included. Either single or double face, same price.

4-E-6213. Single Face.
4-E-6215. Double Face.
Weight, 4 lbs. Each..... **\$0.68**
Weight, 5 lbs. Each..... **.70**
Weight, 6 lbs. Each..... **.73**
Weight, 7 lbs. Each..... **.78**
Weight, 10 lbs. Each..... **1.30**



Striking or Drilling Hammer

4-E-6217. Solid cast steel. Polished faces. Handles not included. Wt. 4½ lbs. Each **\$0.53**
Wt. 6 lbs. Each **.58**
Wt. 8 lbs. Each **.69**
Wt. 10 lbs. Each **.92**
Wt. 12 lbs. Each **1.04**
Wt. 14 lbs. Each **1.20**



Stone Sledges

4-E-6251. Solid cast steel. Polished faces. Handles not included. Weight Each
8 lbs..... **\$0.92**
10 lbs..... **1.15**
12 lbs..... **1.38**
14 lbs..... **1.61**



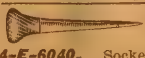
Masons' Hammers

4-E-6253. Finest tool steel, properly tempered. Bronzed finish, polished edge and face. Handle not included. Wt. 3½ lbs. Each **\$0.78**
Wt. 4 lbs. Each **.90**
Wt. 4½ lbs. Each **1.00**



Wrecking Bars

Drop forged ¾ inch octagon steel, claw on one end and wedge points on other. Length 30 inches, shipping weight, 5 lbs.
4-E-2560. Price, each..... **30c**
4-E-2561. 24x¼ inches. Price..... **25c**
4-E-2562. 12x¼ inch. Price..... **12c**



4-E-6040. Socket Scratch Awl. Tool steel, polished beech handle. Price. **12c**



4-E-7461. Railroad picks, cast steel, nicely finished. Weight, 5 to 6 lbs..... **67c**



4-E-7463. Cast steel adze, eye, long cutter. Weight, 5 to 6 lbs. Price. **80c**
4-E-7465. Short cutter mattock, wt. 4½ lbs. Price. **78c**



4-E-7467. Drift pick, cast steel. Wt., lbs. 4 4½ 5 Price..... **63c 68c 73c**



Invincible Post-Hole Digger

4-E-7447. Blade and shanks are drop forged from one solid piece of steel. Length of blade, 9 inches. Fitted with selected hardwood handles. Length, 5 feet. Weight, about 9½ lbs. Price..... **\$1.40**

Philadelphia Pattern Trowel

4-E-6223 Hammered from solid bar crucible steel, properly tempered tapering from heel to point. Ground smooth. Best trowel of its kind made. Size, inches. 10 10½ 11 Price, each **\$1.05 \$1.10 \$1.15**



Pointing Trowel

4-E-6259 Hammered from a solid bar best quality cast steel. Properly tempered and accurately ground. Size, inches. 4 5 6 Price, each..... **32c 34c 37c**



Standard Plastering Trowel

4-E-6263 High grade crucible steel. Properly tempered and nicely finished. Fully guaranteed. Size, inches. 10 10½ 11 Price, each..... **70c 75c 80c**



Brick Chisel

4-E-6255. Solid cast steel. ¾-inch octagon handle, 4-inch blade. Price..... **70c**



4-E-7403. Round Point Shovel. Full polished. Size, 9½x12 inches..... **\$1.05**



4-E-7407. Western Pattern Grain Scoop. Hollow back. Full polished. Price Each
Size Length Ins.
No. 6 16½ **\$1.46**
7 17 **1.50**
8 17½ **1.55**
9 18 **1.60**
10 19 **1.65**



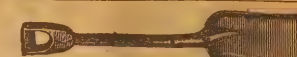
4-E-7411. Drain Spade. Strongly made to stand rough usage. Length, 18 inch. Full polished. Price..... **\$1.60**



Superior quality. Coke Forks. Oval tines.
4-E-7415. 10 tines, 16½ inches long. 14½ inches wide. Price..... **\$2.20**
4-E-7416. 12 tines, 17½ inches long. 17½ inches wide. Price..... **\$2.60**



4-E-7421. Long Handle, Round Point Shovel. Plain back, full polished. Size, 9½x12 inches..... **\$1.05**



4-E-7425. Furnace Scoop. Hollow back, black finish. Size, 9x14 inches... **80c**



4-E-7429. Post Hole Spade. Strongly constructed. Full polished. Concave blade, 6 inches at point, length 18 inches. Price..... **\$1.60**



4-E-7435. Scoop Fork. Special crucible steel tines.
8 tines, 11 in. wide, 14 in. long **\$1.75**
10 tines, 14 in. wide, 15 in. long **2.25**
12 tines, 18 in. wide, 16 in. long **2.60**



4-E-7439. Round Point Shovel. Best crucible steel, solid socket, full polished blade, 9½x12 inches..... **\$2.50**



4-E-7443. Square Point Spade. Best crucible steel, solid socket, full polished blade, 7½x12 inches..... **\$2.50**



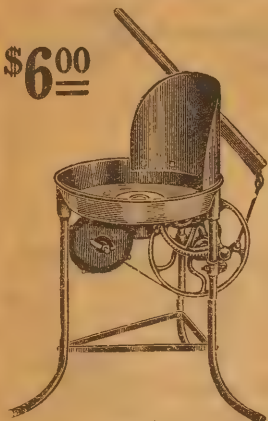
Crowbars

Solid crucible steel, tempered points, properly balanced, full size and strength. Weight, lbs. 12 16 20 Price, each..... **85c \$1.14 \$1.43**
4-E-7457. Pinch Point AZ.
4-E-7459. Wedge Point AZZ.

Blowers—Forges—Blacksmiths' Tools!

Tornado Portable Forge

\$6⁰⁰



While this forge is offered at an extremely low price, it has not been slighted in its construction. Its durability is fully guaranteed.

Construction: The material used is the very best. The legs are made of $\frac{3}{4}$ -inch pipe, which screw firmly into the hearth and are tied together by wrought iron bands to insure rigidity when in action. The lever operates a segment gear on a ratchet, which permits the reverse motion while the drive wheel on the same shaft revolves rapidly. A leather belt connects drive wheel with the blower fan.

Your particular attention is called to the size of the hearth, which is 22 inches in diameter and 3 $\frac{1}{4}$ inches deep. This is an extremely popular forge, owing to the unusual size of the hearth, and we recommend it for all kinds of repair work.

Dimensions: Height of forge, 30 inches. Diameter of hearth, 22 inches. Depth of fire pan, 3 $\frac{1}{4}$ inches. Diameter of fan case, 9 inches.

4-E-6511. Tornado Portable Forge. Weight about 110 lbs. **\$6.00**

4-E-6512. Tornado Portable Forge. Same as above with half hood. Price **\$7.00**

Cyclone Portable Forge

\$5⁸⁰

The best constructed and most durable low priced forge manufactured. For the farm and all light work.

The legs are made of $\frac{3}{4}$ -inch pipe, firmly screwed into the hearth and are tied together with wrought iron bands. The hearth is made of the best grade, heavy cast iron, fitted with an improved Tufere iron. The lever operates a segment gear on a ratchet, which permits the reverse motion, while the drive wheel on the same shaft revolves rapidly.

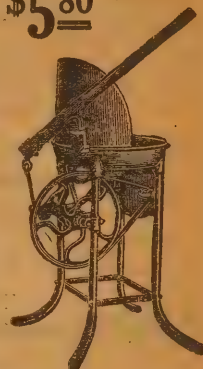
A leather Belt connects the drive wheel with the blower fan; the result is a strong, lasting blast produced with very little energy.

We guarantee that this forge will give entire satisfaction.

Dimensions: Height of forge, 30 inches. Diameter of hearth, 18 inches. Depth of fire pan, 3 $\frac{1}{4}$ inches. Diameter of fire case, 8 inches. Weight, about 55 pounds.

4-E-6501. Price with shield, as shown in illustration. **\$5.80**

4-E-6503. The same in every respect as the one described above, except that it is provided with a steel half hood for smoke pipe connection, instead of a shield for outside work, as shown in illustration. Weight, about 60 pounds. Price **\$7.10**



Excelsior Agricultural Forge

\$19⁰⁰



Extra strong, well braced agricultural forge. No details have been neglected to produce a forge that will give you long service under constant use.

Specially designed clutch, positive in action—no lost motion. The blast is strong and will bring the work to a welding heat in less time than any other forge of similar construction.

The lever support is a swivel, which permits lever to follow the motion of the arm.

There are no springs to get out of order. This forge is guaranteed to give you the satisfaction you have a right to expect.

Size of hearth, 23 by 35 inches; size of fan case, 12 in.; height, 30 inches.

4-E-6504. Price with shield, weight 180 lbs. **\$19.00**

4-E-6506. Price with half hood, weight 185 lbs. **\$21.00**

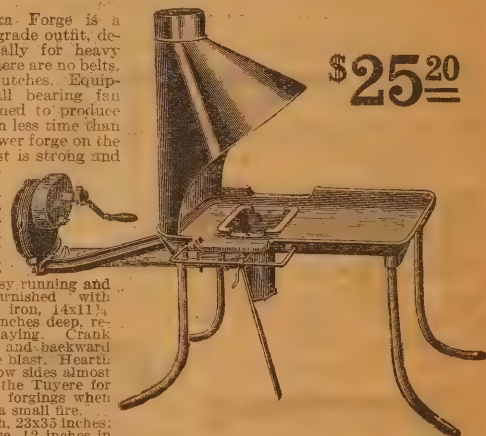
Eureka Blacksmiths, Boilermakers and Rivet Forges

\$25²⁰

The Eureka Forge is a strictly high grade outfit, designed especially for heavy smithing. There are no belts, ratchets, or clutches. Equipped with ball bearing fan shaft. Designed to produce a hotter fire in less time than any other blower forge on the market. Blast is strong and steady. Gears are perfectly built and enclosed in dust-proof, self-oiling case. Steel bushed bearings; gears and pinions large and heavy; easy running and durable. Furnished with heavy Tufere iron, 14x11 $\frac{1}{2}$ inches and 4 inches deep, requiring no claying. Crank turns forward and backward to produce the blast. Hearth is deep with low sides almost to level with the Tufere for long shafts or forgings when working with a small fire.

Size of hearth, 23x35 inches; size of fan case 12 inches in diameter; height, 30 inches; with half hood for indoor work, weight, 225 lbs.

4-E-6508. Eureka blacksmiths, boilermakers and rivet forge, complete as described. **\$25.20**



ANVIL TOOLS

Made of highest grade cast steel. Are full weight, properly tempered, well finished and the best that it is possible to manufacture. Your money back on any tools not entirely satisfactory. We guarantee a saving of 30% to 50%.

Bottom Swages

4-E-6921

Ins.	Lbs.	Ea.
1 $\frac{1}{4}$	2	26c
1 $\frac{1}{2}$	2	27c
1 $\frac{3}{4}$	2 $\frac{1}{4}$	28c
2	2 $\frac{1}{2}$	29c
2 $\frac{1}{4}$	2 $\frac{3}{4}$	31c
2 $\frac{3}{4}$	3	33c
3	3 $\frac{1}{2}$	35c
3 $\frac{1}{2}$	4	36c
4	4 $\frac{1}{2}$	42c



Top Swages

4-E-6943

Ins.	Lbs.	Ea.
1 $\frac{1}{4}$	2	23c
1 $\frac{1}{2}$	2	26c
1 $\frac{3}{4}$	2 $\frac{1}{4}$	27c
2	2 $\frac{1}{2}$	32c
2 $\frac{1}{4}$	2 $\frac{3}{4}$	33c
2 $\frac{3}{4}$	3	34c
3	3 $\frac{1}{2}$	35c
3 $\frac{1}{2}$	4	44c



Bottom Pullers

4-E-6983

Ins.	Lbs.	Ea.
1 $\frac{1}{4}$	2	25c
1 $\frac{1}{2}$	2	26c
1 $\frac{3}{4}$	2 $\frac{1}{4}$	27c
2	2 $\frac{1}{2}$	28c
2 $\frac{1}{4}$	2 $\frac{3}{4}$	35c
2 $\frac{3}{4}$	3	37c
3	3 $\frac{1}{2}$	39c
3 $\frac{1}{2}$	4	41c



Top Pullers

4-E-6981

Ins.	Lbs.	Ea.
1 $\frac{1}{4}$	2 $\frac{1}{2}$	26c
1 $\frac{1}{2}$	2 $\frac{3}{4}$	29c
1 $\frac{3}{4}$	3	30c
2	3 $\frac{1}{4}$	31c
2 $\frac{1}{4}$	3 $\frac{1}{2}$	35c
2 $\frac{3}{4}$	4	41c
3	4 $\frac{1}{2}$	42c
3 $\frac{1}{2}$	5	45c



Square Flatteners

4-E-6985

Face Ins.	Wt. Lbs.	Ea.
2	2 $\frac{1}{4}$	30c
2 $\frac{1}{4}$	2 $\frac{3}{4}$	35c
2 $\frac{3}{4}$	3 $\frac{1}{4}$	45c
3	4 $\frac{1}{2}$	50c



Straight Hardies

4-E-6923

Shank Ins.	Wt. Lbs.	Ea.
1 $\frac{1}{4}$	8 oz.	15c
1 $\frac{1}{2}$	12 oz.	18c
1 $\frac{3}{4}$	1 lb.	43c
2	1 $\frac{1}{4}$ lb.	50c
2 $\frac{1}{4}$	1 $\frac{1}{2}$ lb.	56c



Toe Hardies

4-E-6945. For cutting off heels of shoes.
Shank..... $\frac{7}{8}$ inch
Each **\$1.06**



Hot Cutter

4-E-6991. Without handle.
Cuts 1 $\frac{1}{2}$ inch, weight, 2 $\frac{1}{4}$ lbs. **80c**



Cold Cutter

4-E-6989. Cuts 1 $\frac{1}{2}$ in., weight, 2 $\frac{1}{2}$ lbs. **80c**



Square Set Hammers

4-E-6987

Face Ins.	Wt. Lbs.	Ea.
1 $\frac{1}{4}$	1 $\frac{1}{4}$	74c
1 $\frac{1}{2}$	2 $\frac{1}{4}$	91c
1 $\frac{3}{4}$	4 $\frac{1}{4}$	\$1.12



Blacksmiths' Tools—Blowers and Anvils



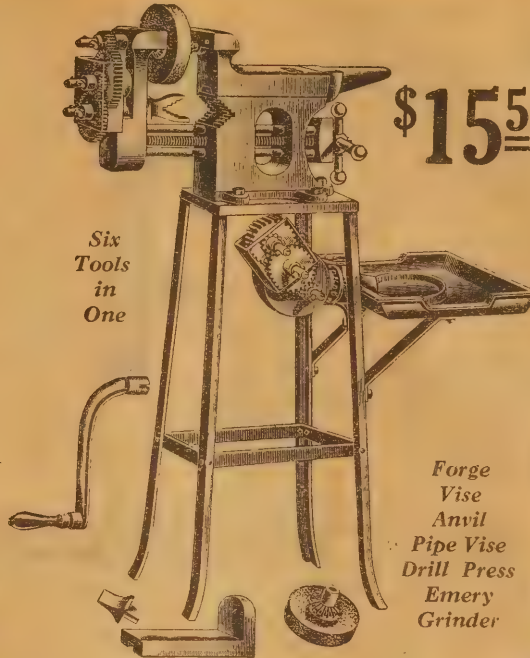
\$15⁵⁰

Blower for All General Work

This blower is made for all ordinary purposes for blacksmiths, wheelwrights, contractors, farmers and for any use where a light, easy running, efficient and durable machine is required at a reasonable price.

Built with direct drive and produces a strong, steady blast. The gears are perfectly cut and are enclosed in dustproof, self-oiling case. Designed so that the crank may be turned forward or backward to produce the blast.

4-E-6616. 46 inch. Fan case 12 inches in diameter, with Tuyere iron and pipe complete. Weight, 140 lbs. Price, **\$15.50**



\$15⁵⁰

Six
Tools
in
One

Forge
Vise
Anvil
Pipe Vise
Drill Press
Emery
Grinder

Combination Outfit

This splendid combination Blacksmith Outfit, equipped with Forge, Vise, Anvil, Pipe Vise, Drill Press and Emery Grinder, is strictly a high grade combination tool that is built for service.

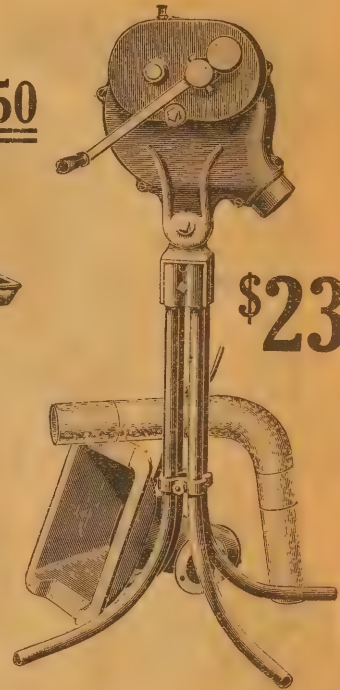
The gears are all cut. The forge pan is 12x14 inches, large enough to take a plowshare. This pan is cut away so that a plowshare can be put into it. The Blower-head attached is a real cut-gear, high speed outfit that runs silent and is speeded high enough to produce a white pressure heat so that welding can be done on any work the farmer is able to handle.

Height, overall, 41 inches; height to top of Forge Hearth, 26 inches; width of Vise Jaws, 4 inches; Extreme opening of Vise Jaws, 4 1/2 inches; capacity of Pipe Vise, 3 inches; capacity of Drill Press, 1 1/2 inch; greatest distance from Spindle to Table, 11 inches; spindle bored to take, 1/2 inch; face of Anvil, 3x5 3/4 inches; size of Handle 3/8 inch; size of Forged Hearth, 12x14 inches; depth of Forge Hearth, 2 feet; speeds obtained by gearing, 1 to 1, 1 to 4, 1 to 14; size of Emery Wheels, 6x1 inches; Floor Space, 12x16 inches. Weight, 135 pounds.

The legs are angle steel, well riveted to the top plate and tool tray, and the two steel rods support the forge pan. Furnished complete with one 6x1 inch emery wheel, and one Hardie, as illustrated. Shipped from Chicago Warehouse.

4-E-974. Price, complete,....

\$15.50

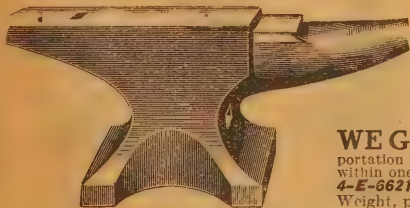


\$23

Blacksmiths' Blower Direct Drive

This splendid blower is built with direct drive. The gears are cut in the most accurate manner and fitted to insure a light, easy running blower at all times. Made with ball bearings—no small gears or pinions. The gearing is enclosed in a dust-proof case and runs in a bath of oil. The crank turns forward or backward to produce the blast. Equipped with heavy Tuyere iron 14x1 1/4 in. over all and 4 in. deep. A strictly high grade blower suitable for heaviest work. Carries the indorsement of many particular users.

4-E-6600. Height, 46 inches. Fan case 12 inches in diameter, with heavy Tuyere iron and pipe complete. Weight, 165 lbs. Price, **\$23.00**



Wrought Iron Anvils

American wrought iron anvils. Top and bottom are each made of one solid piece of the toughest iron. The body is made in two pieces, welded at the waist by improved methods. The face is made of one solid piece of highest grade tool steel, properly tempered and securely welded to the body and is guaranteed not to come loose. The face is planed after the anvil is finished and is therefore smooth. Has wide base, perfectly shaped horn and heel.

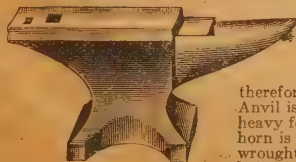
WE GUARANTEE Every anvil to give perfect satisfaction. Any anvil that is not satisfactory can be returned to us within thirty days and we will refund the amount paid, including transportation charges. We further guarantee that should any Premier Anvil break at the waist or the steel face become loose within one year from date of purchase, it will be replaced without charge.

4-E-6621. Premier wrought iron anvils.

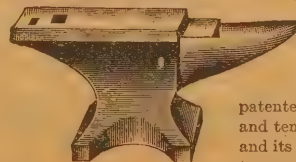
Weight, pounds.....	200 to 220	170 to 190	120 to 165	80 to 119	70 to 79	60 to 69	50 to 59
Per pound.....	20c	21c	22c	23c	24c	25c	26c

Cast Iron

4-E-6625. These anvils are made of a superior pig iron. Face accurately machined and chilled, therefore giving a smooth Anvil surface. This Anvil is for light work, and is not suitable for heavy forging. The waist is reinforced and the horn is slightly heavier in proportion than in a wrought iron Anvil. Anvil is fitted with 3/4-in. hole for hardy, also a 1/2-inch hole for punching. In three sizes only.



Weight, pounds.....	50	70	100
Price, each.....	\$4.20	\$5.90	\$8.75



Steel Faced

4-E-6623. The face of this anvil is one solid piece of tool steel, thoroughly welded to body of anvil by a patented process and is then accurately ground and tempered. The horn is covered with steel and its extremity is made entirely of tough untempered steel. The body of the anvil is made of superior pig iron.

Weight, pounds.....	20	30	40	50	60	70	80	100
Each.....	\$3.00	\$4.80	\$5.60	\$6.40	\$6.95	\$7.75	\$8.55	\$10.65

Self Feed Post Drill

Blacksmith Tools

Ball Bearing Gear Self Feed

\$29⁰⁰

4-E-6705. Strongly constructed and especially adapted for heavy work. For belt and hand power. Fitted with tight and loose pulleys and fly wheel. It is equipped with a special automatic feeding device which is located back of spindle and is worked by a cam on inside of main gear wheel. This cam is constructed so as to give nearly a continuous feed. Made for heavy service. All bearings are extra long and turned out of solid metal. Height of drill, 45 inches.

Diameter of table, 11 inches. Diameter of spindle, 1 1/4 inches. Run of spindle, 3 inches. Size of column, 2 inches. Greatest distance of spindle to table, 16 1/2 inches. Spindle turns 1 1/2 times to one turn of crank fast speed, crank turns 1 1/2 times to one turn of spindle on slow speed. Spindle is bored for 1/2-inch round shank drills. Drills 1 1/2-inch holes to center of 18-inch circle. Weight, 190 lbs. Price.....

\$29.00

Double Geared Self Feed

4-E-6702. We claim that this is the best drill ever offered at the price and will meet with the requirements of the general shop and blacksmith work. It is constructed in the best possible manner and the material and workmanship cannot be excelled. The crank is adjustable to long or short turn. The self-feed attachment can be set fast or slow speed or thrown out when self feed is not required. The drill table can be raised, lowered or swung out of the way, or can be taken off entirely. The spindle has a run of 3 inches. Height of drill, 35 inches. Diameter of upright column, 1 1/2 inches. Diameter of drive gear, 8 inches. Diameter of table, 6 inches. Greatest distance of spindle to table, 9 1/2 inches. Fly wheel, 14 1/2 inches in diameter. Drill spindle is 1 inch steel and is bored for 1/2-inch round shank drills. Holes to a center of 12-inch circle. about 80 pounds. Price.....

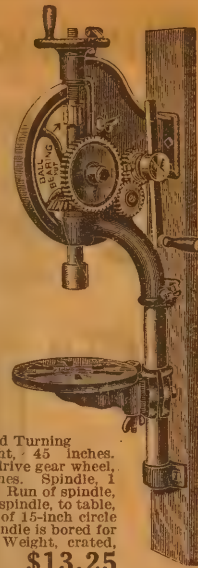
Drills 1/2-inch
Weight, crated,
\$9.45

4-E-6701. All parts readily detachable. No riveted pins holding spindle to feed screw, no washer bearings and riveted studs for the gears. The main gear revolves on a movable stud, screwed into the frame and having a hexagon head. The intermediate pin also turns on a steel stud. The Gears are Machine Moulded, cleaned with sand blast.

Ball Bearing Feed. The nut connecting the feed screw to the spindle is complete within itself and is ball bearing, thus the friction is greatly minimized. The ball bearings also overcome the necessity of frequent oiling.

Has Adjustable Self Feed. The automatic feeding device gives nearly a continuous feed. The device is located back of the spindle and operated by a cam inside of the main gear wheel.

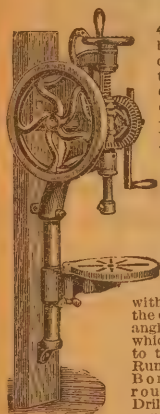
Two Speeds. No Left Hand Turning. Dimensions: Total height, 45 inches. Diameter of table, 10 inches; drive gear wheel, 6 inches. Fly wheel, 14 inches. Spindle, 1 inch. Column, 1 9-16 inches. Run of spindle, 4 inches. Greatest distance of spindle to table, 13 1/4 inches. Drills to center of 15-inch circle and up to 1 1/2-inch holes. Spindle is bored for 1/2-inch round shank drills. Weight, crated, about 100 pounds. Price.....



Double Geared Self Feed

4-E-6707. All bearings are turned out of solid metal and work fit. The drill has two speeds one for light work—the other for heavy. Table can be raised or lowered, or removed and the fork used as a wheel holder. The automatic feed device is located back of the spindle. The lower column is properly aligned with the spindle and the drill table is at right angles with the spindle which causes the drill to turn free and easy. Run of spindle, 3 ins. Bored for 1/2-inch round shank drills. Drills 1 1/2-inch holes to center of a 15-inch circle. Weight, about 115 lbs. Price.....

\$12.50



circle. Weight, about 115 lbs. Price.....

Straight Shank Twist Drill

High grade Straight Shank Drills. Made for machinists' use, from finest tool steel used in the manufacture of drills. Each drill ground to gauge, finely tempered and guaranteed to drill more holes than any other twist drill made. To be used in connection with drill chuck for round shank drills. They cannot be used in a common bit brace. Shanks for these drills are the same diameter as the drill.

4-E-6805. Straight shank twist drills.

Diameter.....	1-16	5-64	3-32	7-64	1-8	9-64	5-32	11-64	3-16	13-64
Length, inches.....	2 1/4	2 3/4	2 3/4	2 3/4	3	3 1/4	3 3/4	3 3/4	3 3/4	3 3/4
Each.....	07c	08c	08c	08c	09c	09c	09c	09c	10c	11c
Diameter.....	7-32	15-64	1-4	17-64	9-32	19-64	5-16	21-64	11-32	23-64
Length, inches.....	3 3/4	3 3/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
Each.....	12c	13c	15c	16c	17c	18c	19c	20c	22c	24c
Diameter.....	3-8	25-64	13-32	27-64	7-16	29-64	15-32	31-64	1-2	
Length, inches.....	5	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	5 1/4	
Each.....	27c	28c	30c	34c	37c	40c	44c	49c	53c	

Round Shank Drill Bits



WITH HALF INCH ROUND SHANKS. For Use in Connection with Post Drills
4-E-6807. Half-inch Round Shank Drills made of the very best grade of Steel, accurately and carefully tempered and will drill more holes than any other blacksmith drill on the market. Each one is absolutely true to gauge and fully guaranteed in every particular.

Size.....	1-8	5-32	3-16	7-32	1-4	9-32	5-16	11-32	3-8	13-32
Price.....	24c	25c	26c	29c	32c	34c	37c	39c	42c	45c
Size.....	7-16	15-32	1-2	17-32	9-16	19-32	5-8	21-32	11-16	23-32
Price.....	47c	50c	53c	55c	58c	63c	68c	74c	79c	84c
Size.....	3-4	25-32	13-16	27-32	7-8	29-32	15-16	31-32	1	
Price.....	89c	95c	1.00	1.05	1.10	1.16	1.21	1.26	1.31	

Bit Stock Drills

4-E-6807. Can be used in an ordinary bit brace, and will drill hardwood, steel and other metals.

Size.....	1-8	5-32	3-16	7-32	1-4	9-32	5-16	11-32	3-8	13-32
Each.....	13c	15c	17c	19c	21c	26c	30c	35c	37c	
Size.....	13-32	7-16	15-32	1-2	17-32	9-16	19-32	5-8	21-32	11-16
Each.....	40c	45c	50c	55c	77c	1.03	1.28	1.55		

4-E-6825. Machinists' Pattern.

for mechanics' use. Knife handle. Designed especially for mechanics' use. 6 8 10 Length, inches..... 90c \$1.10 \$1.35 Price, each..... \$1.70 \$2.30 \$2.85



4-E-6827.

forged steel. Bar and head forged from one piece. Deep milled screw thread. Steel knurl opens full. Every wrench fully warranted. Length, in. 6 8 10 12 15 Price, ea. 55c 70c 80c \$1.00 \$1.35

Straight Shank Twist Drill Set

4-E-6802. 1/4 to 3/4 by 64ths. Mounted on metal blocks. Size of drill, also decimal equivalent and tap drill size. Price..... \$9.50



4-E-6831. Entire Bar Drop forged from one piece of steel. Made with reinforced bar. Length, ins., 6 8 10 12 Opens, ins., 1 1/4 1 1/2 1 3/4 2 1/4 Price..... 80c 95c \$1.15 \$1.45 Length, ins., 15 18 21 Opens, ins., 2 3/4 3 1/4 4 Price..... \$1.95 \$2.65 \$2.95

Machine Counter Sinks

4-E-6823. Half inch Round Shanks. Will fit any of our post drills. Size, inches..... 3/4 1 1/2 Each..... 40c 60c



Hand Feed Drills

4-E-6713. For use on farms and in small shops. The crank is adjustable to long or short turn. Drill table can be raised, lowered or swung out of the way. Upright column and feed screw are made of special steel. The bearings are long and heavy, making it the easiest running and most practical and satisfactory small drill on the market. The drill spindle is 1-inch steel and bored for 1/2-inch round shank drills. Feed has an up and down run of 2 1/2 inches. Height of drill 36 inches. Diameter of upright column, 1 1/4 inches. Diameter of gear wheels, 6 1/2 inches. Greatest distance of spindle to table, 9 1/2 inches. Drills 1/2-inch holes to a center of a 12-inch circle. Wt., crated, about 52 lbs. Price.....



Horizontal Bench Drill



4-E-6721. Blacksmith and farm use. A strong durable tool, which will give excellent service. Drill spindle bored for bit stock drill No. 4-E-6807. Weight, 29 pounds. Price.....

\$2.95

Adjustable "S" Wrench



4-E-6833. High grade tool. Steel jaws, malleable iron frame. Length, ins., 6 8 10 12 14 Opens, ins., 3/4 1 1/4 1 1/2 2 Each..... 65c 80c 95c \$1.45 \$1.90

Post Drill Chucks

Made with half-inch straight shank and will fit any of our post drills. Straight shank, twist drills are used in connection with these chucks. **4-E-6809.** Holds drills, 3/8-inch and smaller. Price..... **\$1.80** **4-E-6811.** Holds drills, 1/2-inch and smaller. Price..... **\$2.40**



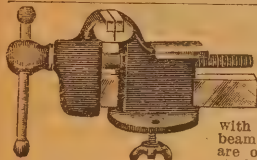
Blacksmiths' and Machinists' Vises!



Steel Beam Swivel Base Vise

4-E-7203. This Vise has a solid steel beam which gives it strength. Being fitted with a swivel bottom, it can be turned rapidly either right or left. This movement is securely fastened with turn of lever.

Width of jaws, inches...	3	3 1/2	4	6
Opens, inches...	12	15	20	32
Weight, lbs.	3.35	\$4.05	\$5.25	\$7.70
Price, each				



Steel Beam Vise

4-E-7205.

This vise is of very strong construction and is made with solid steel beam. The handles are of cold rolled steel and the jaws are tempered steel. Furnished with bolt and nut, and can therefore be used as a swivel as well as a stationary vise.

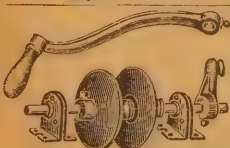
Width of jaws, inches...	2 1/2	3	3 1/2	4
Opens, inches...	8	3 1/2	4	6
Weight, lbs.	1.80	13	19	30
Price, each	\$2.80	\$3.55	\$3.95	\$6.15



Bench Clamp

4-E-7215. These small vises are made to clamp to a table or bench. The top of the jaws and face and anvil are ground and polished. The sliding jaw is made with a deep machine cut thread.

Width of jaws, in.	1 1/2	2
Opens, inches...	1	1 1/2
Price, each	65c	\$1.00

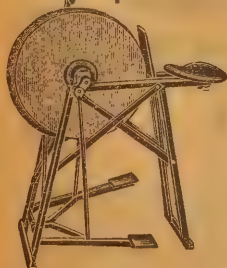


Ball Bearing Grindstone Fixtures

4-E-4407. Made with ball bearing journals. Will support stones from 1 1/2 to 3 inches thick up to 30 inches in diameter.

Price, per set. **\$1.75**

Grindstone \$6.00



4-E-4401. Frame is constructed from angle steel extra well braced. Ball bearings on journals and cranks. Axes are made of steel. Stone is the best selected Berea grit, 20 to 22 inches in diameter, 2 to 2 1/2 inches thick, and weigh on an average of 60 pounds. Weight, about 85 lbs.

Price, each. **\$6.00**



Premier Combination Anvil, Vise, Drill and Hardie

This useful combination of tools is designed to meet all requirements for farmers, mechanics, mills, mines; in fact, it is useful in every home. It consists of a vise, drill, anvil and hardie. Jaws of the vise open 6 inches. Width, 3 1/2 inches, and are faced with steel. Drills holes up to 1/2 inch. 1/2-inch round shank drills are used in connection with this tool.

Weight, about 50 pounds.

4-E-7221. Price complete, without drill bits. **\$3.75**



Combination Vise, Anvil and Pipe Vise

4-E-7229. This Vise is intended only for light work and is the best finished vise of its type on the market. Made of cast iron with chilled face. Width of jaws, 3 inches; opens 5 inches. Weight, 26 pounds.

Price **\$2.25**

Oval Slide Parallel Bench Vise



4-E-7227. The strongest and best finished oval slide vise manufactured. Has tool steel jaws and wrought screw, accurately cut and fitted. Adapted for any kind of light work.

Width of jaws, inches...	2 1/2	3	3 1/2
Opens, inches...	3 1/2	4	4 1/2
Weight, lbs.	8	14	24
Price, each	\$2.15	\$2.50	\$3.15



Ball Bearing Grindstone Fixtures

4-E-4409. Adjustable for stones of different thicknesses. The use of these fixtures will prevent the splitting of grindstone, which is often the case when wooden wedges or axles are used. Japanese finish.

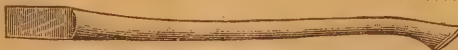
Length, inches...	15	17	19	21
For Stone, lbs.	40	60	80	100
Price, each	\$0.85	\$0.94	\$1.00	\$1.10

Hammer and Axe Handles

Hand Shaved Octagon Hickory Axe Handles

4-E-6201. Made of strictly clear, selected, thoroughly seasoned second growth white hickory. Length, 36 inches.

Each. **57c**



Hand Shaved Oval Hickory Axe Handles

4-E-6203. Made of strictly clear, selected, thoroughly seasoned second growth white hickory. Length, 36 inches.

Each. **54c**

TURNED HICKORY SINGLE BIT AXE HANDLES

4-E-6205. First Grade. Length 36 inches. Each. **29c**

BROAD AXE HANDLES

4-E-6207. First Grade only. Reversible for right or left hand. Length, 34 inches. Each. **34c**

HAMMER HANDLES

4-E-6233. First Grade only. Length, 14 inches. Each. **7c**

HATCHET HANDLES

4-E-6235. First Grade only. Length, 14 inches. Each. **7c**

BROAD HATCHET HANDLES

4-E-6241. First Grade only. Length, 16 inches. Each. **16c**

9c 10c 11c

RIVETING HAMMER HANDLE

4-E-6243. First Grade only. Length, 14 inches. Each. **7c**

POST MAUL HANDLES

4-E-6245. First Grade only. Length, 36 inches. Each. **20c**

DOUBLE BIT HICKORY AXE HANDLES

4-E-6209. First Grade only. Length, 36 inches. Each. **29c**

PICK OR MATTOCK HANDLES

4-E-6211. First Grade only. Length, 36 inches. Each. **34c**

SLEDGE HANDLES

4-E-6237. First Grade only. Length, 34 inches. Each. **22c**

MACHINISTS' HAMMER HANDLES

4-E-6239. First Grade only. Length, 16 inches. Each. **7c**

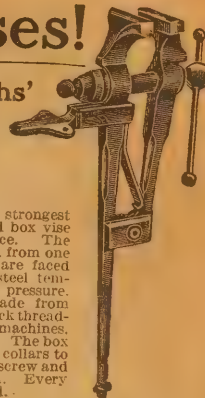
BLACKSMITHS' HAMMER HANDLES

4-E-6247. First Grade only. Length, 16 inches. Each. **7c**

ADZE HANDLES

4-E-6249. First Grade only. Length, 34 inches. Each. **25c**

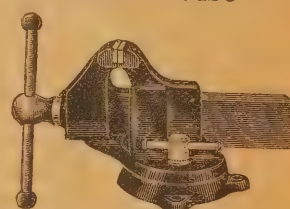
Blacksmiths' Solid Box Vises



4-E-7201. The strongest and best made solid box vise possible to produce. The jaws are each forged from one piece of steel and are faced with crucible tool steel tempered to stand the pressure. The screws are made from heavy steel screw stock threaded on automatic machines, insuring uniformity. The box is fitted with special collars to prevent binding the screw and stripping the thread. Every vise fully guaranteed.

Width of jaws, inches...	3 1/2	4	4 1/2
Weight, lbs.	25	40	45
Price, each	\$5.65	\$5.95	\$6.25
Width of jaws, inches...	4 1/2	5 1/2	6 1/2
Weight, lbs.	50	60	70
Price, each	\$6.50	\$7.40	\$8.50
Width of jaws, inches...	5 1/2	6	6 1/2
Weight, lbs.	80	90	100
Price, each	\$9.95	\$11.35	\$11.45

Swivel Vise



4-E-7225. This vise can be turned in any position on an axis parallel with the floor and is locked by clamping bolt.

Width of jaws, ins...	3	3 1/2	4	4 1/2
Opens, inches...	4	5	6	6 1/2
Weight, lbs.	28	38	54	65
Price, each	\$12.25	\$14.00	\$16.80	\$19.60
Width of jaws, ins...	5	5 1/2	6	7
Opens, inches...	7 1/2	8 1/2	10	12
Weight, lbs.	90	120	136	240
Price, each	\$21.85	\$27.50	\$37.50	\$46.85

Solid Jaw Machinists' Bench Vises



4-E-7223. The metal used is an alloy mixture, very tough, making the strongest vise possible to manufacture. Reinforced where the strain is heaviest. Screws and handles are cold rolled steel. Jaws are heavy tool steel carefully tempered. Every vise is fully guaranteed. Stationary bottom.

Width of jaws, inches...	3	3 1/2	4
Opens, inches...	4 1/2	5 1/2	6
Weight, lbs.	24	28	42
Price, each	\$10.50	\$11.20	\$13.30
Width of jaws, inches...	4 1/2	5	5 1/2
Opens, inches...	6 1/2	7 1/2	8 1/2
Weight, lbs.	52	58	72
Price, each	\$15.40	\$19.60	

Household Grindstone



Fitted with convenient adjustable tool rests, nicely finished in black enamel.

4-E-4401. 4-in. case, wheel size, 4x3x1 inch. Price. **\$1.55**

4-E-4406. 5-in. case, wheel size, 5x1x1 inch. Price. **\$2.40**

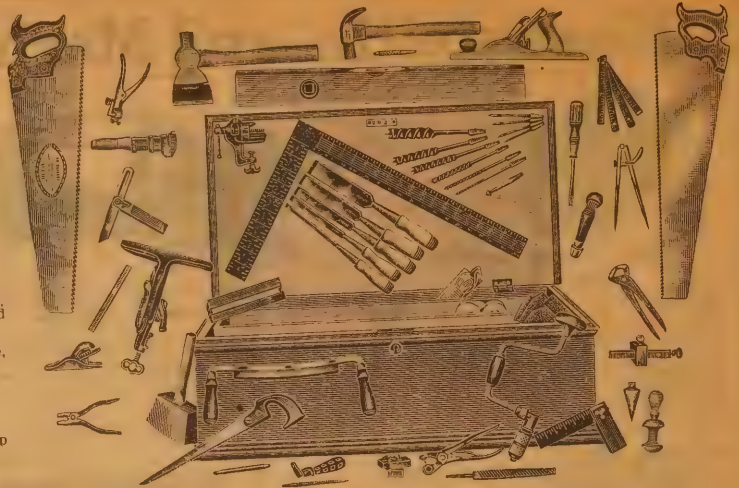
4-E-4408. 6-in. case, wheel size, 6x1x1 inch. Price. **\$3.00**

4-E-4410. 7-in. case, wheel size, 7x1x1 inch. Price. **\$3.95**

Tool Sets

Each item represents the very best of its respective kind. Every tool is selected from our regular stock and is fully guaranteed and adapted to the use of the skilled mechanic. The Tool Chest is of Hardwood and is strongly made and nicely finished, fitted with sliding tray, handles and a secure lock.

- 1 Premier Extra High Grade Hand Saw, length, 26 inches.
- 1 Favorite Rip Saw, length, 26 inches.
- 1 Compass Saw, 12-inch, spring steel blade.
- 1 Iron Block Plane, length, 5 1/2 inches.
- 1 Adjustable Iron Jack Plane, length, 15 inches.
- 1 Morrell Pattern Saw Set.
- 1 Japanned Iron Saw Vise, length of jaws, 9 1/2 inches.
- 1 Slim Taper File, length, 5 inches.
- 1 Flat Mill File, length, 8 inches.
- 1 Malleable Iron File and Tool Holder.
- 1 Carpenters' Steel Square, No. 7, with Essex board measure. Length of body, 24 inches; 16-inch tongue. Both sides marked in 32nds; 4ths and 1 inch.
- 1 Oil Stone, length, 8 inches, mounted in hardwood case.
- 1 Pair Carpenters' Pincers, length, 8 inches. Claw on one handle, screwdriver on other.
- 1 Knurled Nail Set, tempered at both ends.
- 1 Spring Tube Punch for punching holes in leather.
- 1 Marking Gauge.
- 1 Wing Divider, polished steel, length, 8 inches.
- 1 Tri-Square.
- 1 Adjustable Plumb and Level, polished cherry finish, arched top plates, two brass-tipped side views, length, 28 inches.
- 1 Zig Zag Folding Rule, length, 5 feet.
- 1 Carpenters' Pencil.
- 1 Sliding T Bevel, rosewood handle, brass tipped, 8-inch blade.
- 1 Premier Socket Firmer Chisels. Leather tipped handles, one each size, 1/4, 1/2, 3/4, 1 and 1 1/2 inches.
- 1 Ratchet Brace, nickel plated, polished hardwood head and handle. 10-inch sweep.
- 1 Hollow Handle Tool Set, polished cocobola handle, with 10 hand forged fully tempered tools.
- 1 Premier Drawing Knife, length of cut, 10 inches.
- 1 Monkey Wrench, length, 8 inches.
- 1 Cold Chisel, perfectly tempered, 1/2-inch cut.
- 1 Jennings' Pattern Auger Bits, high grade. One each size, 1/4, 1/2, 3/4, 1 and 1 1/2 inches.
- 1 Combination Side Cutting Plier, length, 6 inches. End of one handle can be used as screwdriver; the other is pointed and can be used as a reamer.



- 1 German Pattern Gimlet Bits, extra-quality. One each size, 1/4, 1/2, 3/4 and 1.
- 1 Combination Anvil and Vise, 1 1/2-inch jaws.
- 1 Premier Shingling Hatchet, 3 3/4-inch cut.
- 1 Forged Steel Nail Hammer, size No. 1 1/2.
- 1 Chalk Line Reel and Awl.
- 1 Plumb Bob, nickel plated.

- 3 Hanks Braided Chalk Line.
- 6 Cakes Carpenters' Chalk.
- 1 Snail Head Counter Sink, for wood.
- 1 Mallet, hickory head, size 6 1/2 x 2 1/4 x 3 1/2 inches, with handle.
- 100 Assorted Tubular Rivets.
- 12 Sheets Sandpaper, assorted.

4-E-4603. Triumph Tool Set.
Complete with Chest.....

\$39.95

Excelsior Complete Tool Set

4-E-4701. The Tool Chest is made of Hardwood and is very substantial. It is fitted with a sliding tray and a secure lock, and is sufficiently large to hold other tools that you may wish to add from time to time.

OUR EXCELSIOR TOOL SET CONSISTS OF THE FOLLOWING TOOLS:

- 1 Chicago Special Hand Saw, 24 inches long.
- 1 Chicago Special Rip Saw, 26 inches long.
- 1 Iron Block Plane, length, 5 1/2 inches.
- 1 Adjustable Wood Bottom Jack Plane, length, 15 ins.
- 1 Ratchet Brace, 10-inch sweep, nickel plated.
- 1 2-Foot Four-Fold Rule.
- 1 Sliding T Bevel, Rosewood handle, brass-tipped, 8-inch blade.
- 3 German Pattern Gimlet Bits, one each size, 1-16, 1/4 and 3-16 inch.
- 1 Oil Stone, length, 6 inches, mounted in hardwood case.
- 4 Extension Lip Auger Bits, one each size, 1/4, 1/2, 3/4 and 1 inch.

- 1 High Grade Shingling Hatchet, width of bit, 3 3/4 inches.
- 1 Premier Drawing Knife, length of cut, 10 inches.
- 1 Screw Driver Bit.
- 1 Carpenters' Steel Square, No. 7, with Essex Board measure, 24-inch body, 16-inch tongue. Marked on both sides.
- 1 Pair Combination Pliers, nickel plated, length, 5 ins.
- 1 Monkey Wrench, length, 10 inches.
- 1 Slim Taper File, length, 5 inches.
- 1 Mill File, length, 8 inches.
- 1 Iron File and Tool Holder.
- 1 Wrought Steel Nail Hammer.

- 1 Oval Head Marking Gauge.
- 3 Socket Firmer Chisels, leather-tipped handles, one each size, 1/4, 1/2 and 1 inch.
- 1 Knurled Nail Set.
- 1 Champion Pattern Screw Driver, 4-inch steel blade.
- 1 Plumb and Level, polished cherry, length, 28 inches.
- 1 Carpenters' Pencil.
- 1 Rose Head Countersink Bit.
- 1 Snail Head Countersink Bit.
- 1 Square Reamer Bit.
- Complete with Chest.....

\$25.95

Bolt Clipper



Size No.	For Cutting Bolts	Each
0	Up to 1/4 inch	\$3.00
1	Up to 3/8 inch	3.80

Riveting Hammers



4-E-7013. Polished cast steel. Complete with handles. Handles are not included in weight.

Weight, ounces...	7	9	12	18
Each.....	59c	62c	64c	71c

Machinists' Ball Pein Hammers



4-E-7019. Cast steel, half polished, complete with Handles.

Wt., lbs.....	1	1 1/4	1 1/2	1 3/4	2
Each.....	73c	75c	83c	89c	\$1.00

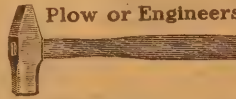
Horseshoers' Turning Sledges



4-E-7023. Solid cast steel, polished faces. Prices do not include handles.

Wt., lbs....	6	10
Each.....	\$1.02	\$1.70

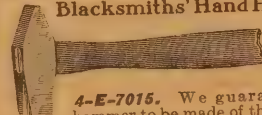
Plow or Engineers' Hammer



4-E-7017. Made of the very best quality of steel, highly polished, complete with handles. Handle not included in weight.

Weight, ounces.....	18	24	36
Each.....	70c	82c	87c

Blacksmiths' Hand Hammer



4-E-7015. We guarantee this hammer to be made of the very best quality steel, polished and complete with handles. Handles not included in weight.

Weight, lbs.....	2	2 1/2	3
Price, each.....	\$1.22	\$1.30	\$1.40

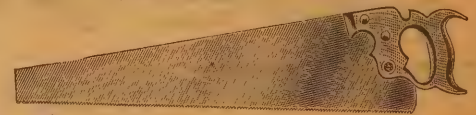
Blacksmiths' Sledges



4-E-7021. Solid cast steel polished faces, fully guaranteed. Prices do not include handles.

Wt., lbs....	6	8	10	12	14	18
Each.....	63c	84c	\$1.05	\$1.26	\$1.47	\$1.89

"Our Gem" Tool Set



"Our Gem" Tool Set consists of the following tools:

- 1 24-inch Crucible Steel Hand Saw.
- 1 Steel Nail Hammer.
- 1 Bit Brace, 8-inch sweep.
- 3 Auger Bits, cast steel, double Spur, one each size, 3/8, 1/2, 5/8 inch.
- 4 Gimlet Bits, double cut, assorted sizes.
- 1 3/4-inch Leather-tipped Socket Firmer Chisel.
- 1 4-inch Screw Driver, Champion pattern.
- 1 7-inch Iron Block Plane.
- 1 2-foot 4-fold Boxwood Rule.
- 1 Shingling Hatchet.
- 1 Combination Anvil and Vise, 1 1/2-inch jaws.
- 1 8-inch Monkey Wrench.
- 1 6-inch Steel Tri-Square.
- 1 4-inch Taper File with Handle.

4-E-4601. "Our Gem" Tool Set.

\$7.25

BLACKSMITHS' STOCKS AND DIES



Cuts all right hand threads except No. 4-E-7332.

Catalog Number	Manufacturers No.	Cuts inch	No. of Threads inch to	No. of taps in set	No. of dies in set	Price per set
4-E-7301	55	1/8 to 1/4	18-24 and 32	4	3 sets	\$2.80
4-E-7303	53	1/8 to 1/4	18-20-24 and 32	4	4 sets	3.00
4-E-7305	53 A	1/8 to 1/4	18-20-24 and 32	4	4 sets	3.10
4-E-7307	41	1/8 to 1/4	12-14 and 26	6	3 sets	3.65
4-E-7309	41 C	1/8 to 1/4	12-14 and 26	6	3 sets	3.70
4-E-7311	41 D	1/8 to 1/4	12-16 and 20	6	3 sets	3.75
4-E-7313	37	1/8 to 1/4	14-18 and 22	6	3 sets	4.75
4-E-7315	37 A	1/8 to 1/4	12-14 and 16	6	3 sets	4.80
4-E-7317	37 C	1/8 to 1/4	11-12 and 16	6	3 sets	4.85
4-E-7319	34 C	1/8 to 1/4	10-11 and 12	3	3 sets	5.00
4-E-7321	34 B	1/8 to 1/4	12-14 and 16	3	3 sets	5.05
4-E-7323	34 A	1/8 to 1/4	10-12 and 14	3	3 sets	5.10
4-E-7325	32 A	1/8 to 1/4	10-11-12 and 14	4	4 sets	5.60
4-E-7327	32 B	1/8 to 1/4	10-12-14 and 16	4	4 sets	5.65
4-E-7329	23	1 to 1 1/2	9-10 and 14	3	3 sets	5.75
4-E-7331	23 A	1 to 1 1/2	8-10 and 12	3	3 sets	5.75
4-E-7332	42 A	1 1/2 to 1 3/4	{ Right hand 12 and 18 Left hand 12 }	6	3 sets	3.95



BLACKSMITHS' STOCKS AND DIES

With Stocks for single die. Cuts right hand threads only.

Catalog Number	Mfrs. No.	Cuts inch	No. of Threads inch to	No. of taps in set	No. of dies in set	Price per set
4-E-7337	51 A	1/2 to 3/4	12-14 and 16	3	3 sets	\$4.45
4-E-7339	51 B	1/2 to 3/4	12-14-16 and 18	4	4 sets	5.00
4-E-7341	60	1/2 to 3/4	10-12-14 and 18	6	4 sets	7.25
4-E-7343	27	3/4 to 1	10-12 and 16	6	3 sets	7.30
4-E-7345	27 B	3/4 to 1	10-11-12-14 and 16	5	5 sets	8.40
4-E-7347	27 C	3/4 to 1	10-11-12-14-16 and 18	6	6 sets	9.50
4-E-7349	27 D	3/4 to 1	10-11-12-14-16-18-20	7	7 sets	10.65
4-E-7351	27 A	1 to 1 1/2	10-11 and 12	6	3 sets	7.35
4-E-7353	19 B	1 to 1 1/2	8-9-10 and 11	4	4 sets	10.00
4-E-7355	19 C	1 to 1 1/2	8-9-10-11 and 12	5	5 sets	11.75

WOOD SCREWS

Flat head bright wood screws, cold forged, are stronger, hold better and are inserted easier than other wood screws. Orders for less than a gross will be charged at the dozen price.

4-E-4029	4-E-4031	4-E-4033	4-E-4035
Length 1/4 inch	Length 3/8 inch	Length 1/2 inch	Length 5/8 inch
No. Gross Doz.	No. Gross Doz.	No. Gross Doz.	No. Gross Doz.
1 23c 3c	1 23c 3c	2 23c 3c	2 23c 3c
2 23c 3c	2 23c 3c	3 23c 3c	3 23c 3c
3 23c 3c	3 23c 3c	4 24c 3c	4 24c 3c
	4 23c 3c	5 25c 3c	5 25c 3c
		6 26c 3c	6 27c 3c
			7 29c 3c
4-E-4037	4-E-4039	4-E-4041	4-E-4043
Length 3/4 inch	Length 1 inch	Length 1 1/4 inch	Length 1 1/2 inch
No. Gross Doz.	No. Gross Doz.	No. Gross Doz.	No. Gross Doz.
4 25c 4c	5 28c 4c	5 29c 4c	7 36c 5c
5 27c 4c	6 29c 4c	6 30c 4c	8 37c 5c
6 28c 4c	7 31c 4c	7 31c 4c	9 40c 5c
7 29c 4c	8 32c 4c	8 34c 4c	10 42c 5c
8 33c 4c	9 34c 4c	9 36c 4c	12 50c 6c
9 35c 4c	10 36c 4c	12 43c 4c	14 61c 6c
10 36c 4c	12 44c 4c	14 56c 5c	16 71c 6c
4-E-4045	4-E-4047	4-E-4049	4-E-4051
Length 1 1/2 inch	Length 2 inch	Length 2 1/2 inch	Length 3 inch
No. Gross Doz.	No. Gross Doz.	No. Gross Doz.	No. Gross Doz.
8 42c 5c	10 57c 6c	12 75c 9c	14 \$1.13 12c
9 44c 5c	12 64c 7c	14 86c 10c	16 1.36 14c
10 45c 5c	14 79c 8c	16 \$1.18 12c	18 1.78 16c
12 53c 5c	16 \$1.00 12c	18 1.52 15c	
14 64c 6c	18 1.36 14c		
16 91c 10c			

ROUND AND FLAT HEAD STOVE BOLTS



3-16 INCH DIAMETER	1/4 INCH DIAMETER	5-16 INCH DIAMETER
Length, inch.. 1/2 3/8 3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	Length, inch.. 1/2 3/8 3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	Length, inch.. 1/2 3/8 3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/2 3
Price per 100.. 27c 27c 27c 29c 29c 32c 35c 37c 39c 42c 48c	Price, per 100.. 38c 38c 38c 40c 42c 45c 48c 50c 52c 58c 64c	Price, per 100.. 56c 58c 60c 62c 66c 69c 74c 80c 86c

HARDWARE SNAPS!

MACHINE BOLTS



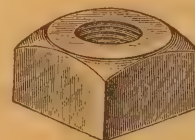
1-4 INCH DIAMETER BOLTS	5-16 INCH DIAMETER BOLTS	3-8 INCH DIAMETER BOLTS	1-2 INCH DIAMETER BOLTS
Length, inches.. 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7	Length, inches.. 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7	Length, inch.. 1 1/2 1 1/2 2 2 1/2 3 3 1/2 4	Length, inch.. 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2
Per 100..... \$1.00 1.06 1.12 1.18 1.24 1.30 1.56 1.62 1.66 1.73 1.78 1.8	Per 100..... \$1.20 1.26 1.34 1.40 1.50 1.66 1.95 2.03 2.11 2.20 2.28 2.3	Price, per 100..... \$1.44 \$1.44 \$1.53 \$1.62 \$1.73 \$1.82 \$1.92	Price, per 100..... \$2.43 \$2.60 \$2.68 \$2.95 \$3.12 \$3.30 \$3.48 \$3.65 \$3.73
		Length, inch.. 4 1/2 5 5 1/2 6 6 1/2 7 8	Length, inch.. 6 6 1/2 7 8 9 10 11 12
		Price, per 100..... \$2.27 \$2.37 \$2.48 \$2.57 \$2.70 \$2.80 \$3.00	Price, per 100..... \$4.00 \$4.18 \$4.35 \$4.70 \$5.05 \$5.40 \$5.76 \$6.10

CARRIAGE BOLTS

4-E-7353. These have oval heads, square shoulders, perfect thread with forged nuts. Will sell 50 bolts at one-half 100 price.



1-4 inch diameter. 100 bolts in a package. (Always state size bolt wanted.)	5-16 Inch Diameter. 50 Bolts in a Package. (Be sure to state length wanted.)	3-8 Inch Diameter. 50 Bolts in a Package. (Be sure to state length wanted.)	1-2 Inch Diameter. 50 Bolts in a Package. (Be sure to state length wanted.)
Length, inch.. 1 1/2 2 2 1/2 3 3 1/2 4	Length, inch.. 1 1/2 1 1/2 2 2 1/2 3 3 1/2 4	Length, inch.. 1 1/2 1 1/2 2 2 1/2 3 3 1/2 4	Length, inch.. 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5
Price, per 100..... 68c 68c 75c 81c 88c 95c \$1.02	Price, per 100..... 95c 95c \$1.02 \$1.10 \$1.18 \$1.26 \$1.35	Price, per 100..... 95c 95c \$1.02 \$1.10 \$1.18 \$1.26 \$1.35	Price, per 100..... \$2.33 \$2.54 \$2.70 \$2.91 \$3.14 \$3.30
Length, inch.. 4 1/2 5 5 1/2 6 6 1/2 7 8	Length, inch.. 4 1/2 5 5 1/2 6 6 1/2 7 8	Length, inch.. 4 1/2 5 5 1/2 6 6 1/2 7 8	Length, inch.. 5 1/2 6 6 1/2 7 8
Price, per 100..... \$1.08 \$1.15 \$1.21 \$1.29 \$1.43 \$1.50 \$1.65	Price, per 100..... \$1.43 \$1.50 \$1.59 \$1.67 \$1.86 \$1.95 \$2.10	Price, per 100..... \$1.92 \$2.04 \$2.15 \$2.25 \$2.50 \$2.60 \$2.85	Price, per 100..... \$3.53 \$3.70 \$3.93 \$4.11 \$4.30



BLANK SQUARE NUTS

4-E-7361

Bolt, Inches	No. in lbs.	Price Blank per lb.
1/4	74	17c
5/16	39	15c
3/8	21	12c
7/16	13	12c
1/2	12	11c
5/8	7	10c
3/4	6	10c
7/8	3	10c
1	2	9c
	2	9c

THREADED SQUARE NUTS

4-E-7363

Bolt, Inches	No. in lbs.	Price, Threaded per lb.
1/4	74	20c
5/16	39	18c
3/8	21	14c
7/16	13	14c
1/2	12	13c
5/8	7	13c
3/4	6	12c
7/8	3	11c
1	2	10c
	1	10c



WROUGHT IRON WASHERS

4-E-7359. These washers are made to easily fit the size of bolt given.

Bolt, ins.	No. in lb.	Per lb.
3/16	400	14c
1/4	139	12c
5/16	113	11c
3/8	68	9c
7/16	26	7c
1/2	13	7c
5/8	10	7c
3/4	9	7c
7/8	6	7c
1		

LAG SCREWS

We can furnish lag screws in all sizes at low prices. Send list of your requirements

These Bargains Offer Big Economy



Mixed Bolts

50 Pounds

\$2⁷⁵

A wonderful bargain in mixed bolts of all sizes and descriptions, such as machine, carriage, stove and plow bolts in all diameters, up to $\frac{1}{2}$ inch and 8 inches in length. No farm, factory or shop should be without this assortment. Stop and realize the time and money you can save by having 50 or 100 pounds of these mixed bolts on hand.

4-E-4081. 50 pounds..... **\$2.75**
 4-E-4082. 100 pounds..... **\$5.00**

Mixed Rivets



75c
25 lbs.

Brand new mixed rivets, consisting of wagon makers', tinners', cornice plow round and flat heads. Ranging in size from $\frac{1}{4}$ in. to $4\frac{1}{2}$ in. in length.
 4-E-135. Per 25-lb. package..... **75c**


Mixed Tacks



53c
10 lbs.

A special assortment of tacks, consisting of carpet, bill posters' and upholsterers' trimmers' tacks, put up in 10-lb. pkg. An assortment to meet the needs of every household.
 4-E-9900. 10-pound package..... **53c**

Mixed Wood Screws




10 Pound Box **50c**
 25 Pound Box **\$1⁰⁰**

You Need Them Every Day!

You will save more money on this handy assortment of wood screws than the low price we are asking for them. The assortment contains all bright new screws including round and flat heads from smallest sizes. All the screws constantly needed about the farm and home—always the right screw when you need it most. An excellent assortment for every purpose.

4-E-8042. 10-lb. box..... **50c**
 25-lb. box..... **\$1.00**

20 Assorted Coil Springs



Here is another assortment, a wonderful bargain containing 20 assorted coil springs made of the best tempered steel. They can be used for almost anything for your binder, mowers, and other implements, for screen doors; in fact, wherever a coil spring is required. This assortment consists of 20 assorted expansion and compression springs ranging in diameter from $\frac{1}{4}$ to $\frac{3}{4}$. Weight, about $1\frac{1}{4}$ lbs.

4-E-8046. COMPLETE ASSORTMENT..... **55c**

Cobbler Outfit


Complete **\$1⁸⁰**

A Necessity in Every Home

4-E-200. Reversible iron stand; men's, boys', women's and child's lasts; hammer, knife, sewing awls, haws, needles, rivets, heel plates, leather and rubber cement, clamp, punch, soldering copper, solder, resin, tin thread and wax; boxed; shipping weight, 10 lbs. Price..... **\$1.80**



TESTED CABLE LOG CHAINS




Made of the best grade tested cable chain, fitted with hooks and swivels. Length 14 feet with grab hook on one end, large round hook on the other end, swivel in center. Size given is diameter of iron from which the links are made.

4-E-7147. Tested Steel Log Chains

Size, inches.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Weight, lbs.....	17	23	33	41	52	72
Price.....	\$1.80	\$2.40	\$3.00	\$4.40	\$5.60	

Tested Cable Coil Chain



4-E-7031. Short, straight links. Made of high grade iron of great toughness and guaranteed full size.

Guaranteed to be strictly first class in every particular.

Size, inch.....	3-16	5-16	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Approx Wt., per ft., lbs.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Per Foot.....	7c	10c	18c	22c	26c	56c


Wrought Iron Chain Repair Links



4-E-7034. Used to replace broken links. Made full size of regular chain iron.

Size, inches.....	3-16
Price, per dozen.....	3c

Round Chain Hooks



4-E-7045. Forged from the highest grade chain steel.

For Chain, inches.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Each.....	13c	17c	29c

Utility Tool Set

\$1⁵⁰

Handy Tools for All Work

4-E-5963. Set consists of: 11 tools specially selected, forged from high grade tool steel properly tempered. Polished cocobola handle, improved nickel plated chuck. Each tool is nicely finished and guaranteed to give entire satisfaction.

Price..... **\$1.50**



Malleable Repair Links



4-E-7036. Can be applied without tools. These links combine simplicity and strength.

For Chain, inch.....	3-16	$\frac{1}{4}$	$\frac{5}{16}$
Size, inch.....	5	5	5
Per dozen.....	40c	45c	50c

Grab Chain Hooks

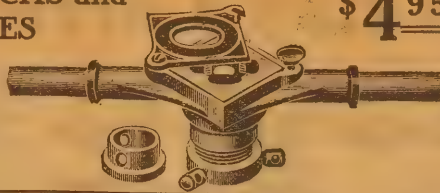


4-E-7047. Carefully forged from the highest grade chain steel.

For Chain, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Each.....	13c	25c	35c

MALLEABLE PIPE STOCKS and SOLID STEEL DIES

In the manufacture of the dies it has been our aim to furnish a die of unusual cutting qualities. To do this it has been necessary to use a higher grade of steel than has heretofore been employed in the manufacture of pipe dies. We will guarantee that every die has a perfect clearance and will cut a clean thread. When cutting threads use plenty of oil. Lard oil is recommended for this purpose.



\$4.95

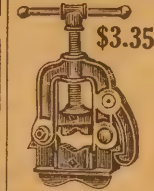
Smith's Combination Pipe Vises

6-E-2839. Can be used as a swivel or stationary bottom. Pipe jaws are reversible. Vise can be used either for pipe or as a parallel machinists vise.



\$12.00

Size No.	1	2	3
Weight, lbs.	45	70	105
Capacity, inches.	1/4 to 2	1/4 to 3	1/4 to 4
Width of jaw, inches.	3 1/2	4	4 1/2
Price, each.	\$12.00	\$16.50	\$24.00



\$3.35

Open Hinge Malleable Pipe Vises

4-E-2841. Made with steel jaws which are interchangeable. Vise is self-locking, heavily constructed. The jaws and every part of vise are fully guaranteed.

Size No.	1	2	3
Cap.in. 1/8 to 2 1/2	1/8 to 3 1/2	1/8 to 4 1/2	
Pr., ea.	\$3.35	\$5.00	\$7.40



Barnes' Three Wheel Pipe Cutters

4-E-2843. Made of malleable iron. Steel pins and cutting wheels are made of highest grade crucible steel, oil tempered. This style cutter is especially suited to use in that class of work where it is impossible to revolute cutter entirely around pipe.

Size No.	1	2	3
Cuts pipe, inches.	1/4 to 1	1/4 to 2	1 1/4 to 3
Price, each.	\$2.28	\$3.05	\$5.00
Extra wheels. ....	.12	.15	.20



Saunders' Pattern Pipe Cutter

4-E-2845. Is suitable for work where the cutter can be revolved around the pipe and leave practically no burr. Pins and cutter wheels are made of crucible steel, tempered.

Size No.	1	2	3	4
Cuts pipe, inches.	1/4 to 1	1/4 to 2	2 to 3 1/2	2 to 4
Price, each.	\$1.85	\$2.75	\$6.80	\$11.00
Extra wheels. ....	.14	.19	.36	.38



Trimo Pipe Wrenches

4-E-2847. Drop forged from bar steel, removable jaw and nut. Are made with round top and bottom, threads guaranteed not to strip or burr. All the parts are interchangeable and can be renewed at small expense.

Lgth. Takes Pipe	Price	Lgth. Takes Pipe	Price
In. In. Each	In. In. Each		
6 in. 1/4 to 1	1.90	18 in. 1 1/2 to 2 1/2	\$2.25
8 in. 1/4 to 1 1/2	1.02	24 in. 1 1/2 to 2 1/2	3.25
10 in. 1/4 to 1 1/2	1.12	36 in. 1 1/2 to 3 1/2	6.00
14 in. 1/4 to 1 1/2	1.58	48 in. 1 to 5	9.00

Harris Reversible Chain Wrench with Cable Chain—Steel Handle

4-E-2508 Length, inches.64 1/2
Capacity, inches. 2 to 12
Price, each. **\$6.84**

Stilson Pipe Wrenches

Lgth.	Takes Pipe	Price
6 in. 1/4 to 1	1.05	
8 in. 1/4 to 1 1/2	.95	
10 in. 1/4 to 1 1/2	1.10	
14 in. 1/4 to 1 1/2	1.50	
18 in. 1/4 to 2	2.20	
24 in. 1/4 to 2 1/2	3.15	

4-E-2833. Drop forged. All parts interchangeable. **4-E-2831.** Pipe-Tap. **4-E-2832.** Pipe Reamer.

1/4 in.	\$0.50	1 in.	\$2.05
1/2 in. ....	.60	1 1/4 in.	2.85
3/4 in. ....	.80	1 1/2 in.	3.75
1 in.	1.00	1 3/4 in.	5.70
1 1/4 in.	1.35		

Pipe size of dies, regular set inches.	1/8	1/4	3/8	1/2
Dimensions of dies, inches.	3x3x3 1/4	4x4x1 1/2	5x5x1 1/2	6x6x1 1/2
Price per set, complete with dies.	\$4.95			

4-E-2802. Set No. 1	
Pipe size of dies, regular set, inches.	1/8 1/4 3/8 1/2
Dimension of dies, inches.	2 1/2 x 2 1/4 x 3/4
Price per set, complete with dies.	\$6.50

4-E-2805. Set No. 2	
Pipe size of dies, regular set, inches.	1/4 1 1/2 2
Dimension of dies, inches.	4x4x1 1/2
Price per set, complete with dies.	\$8.95

4-E-2803. Set No. 1 1/2	
Pipe size of dies, regular set, inches.	1/4 1 1 1/4
Dimension of dies, inches.	3x3x3 1/4
Price per set, complete with dies.	\$5.90

4-E-2806. Set No. 3	
Pipe size of dies, regular set, inches.	1/2 3
Dimension of dies, inches.	5x5x1 1/2
Price per set, complete with dies.	\$21.65

Extra Dies and Guides

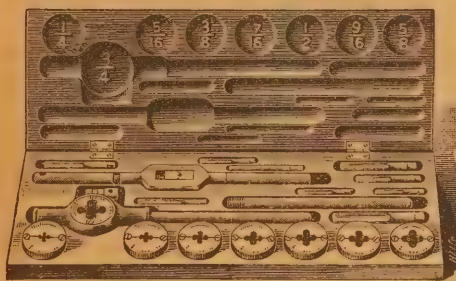


4-E-2808. These can be furnished either right or left hand thread. In ordering be sure and state which. Unless otherwise specified dies with right hand threads will be shipped.

Dimension of Dies, inches	Pipe Size of Dies	Price of Dies	Price of Guides
2 x 2 x 1/2	1/8, 1/4, 3/8, 1/2	\$0.87	\$0.17
2 1/2 x 2 1/4 x 3/4	1/4, 1/2, 3/4, 1	1.99	2.20
3 x 3 x 3/4	1/2, 3/4, 1, 1 1/4, 1 1/2	1.99	2.20
4 x 4 x 1 1/2	3/4, 1, 1 1/4, 1 1/2, 2	1.56	.43
5 x 5 x 1 1/2	1, 1 1/4, 1 1/2, 2, 3 (right hand only)	5.55	1.20



CHAMPION EASY SCREW PLATES



\$12.95

U. S. Standard Thread

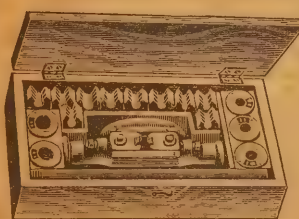
Champion easy screw plates make a perfect screw with a single cut. Adjustable dies with taper head screw and taper nut making them rigid and solid. The finest workmanship and material. All dies and taps made of special tool steel perfectly tempered. Come to you in neat wood box with taper taps. Complete with Champion adjustable tap wrench with square socket to fit shank of each tap in stock. Holds tap firmly and always in center.

4-E-627. Cuts 5 sizes as follows: 1/4-20, 3/8-16, 1/2-13, 3/4-11, 1-10, U. S. standard threads. Length of stock, 16 in., weight 7 1/2 lbs., price set.	\$12.95
4-E-628. Cuts 6 sizes as follows: 1/4-20, 3/8-16, 1/2-13, 3/4-11, 1-10, U. S. standard threads. Length of stock 16 in., weight 8 lbs., price per set.	\$13.95
4-E-631. Cuts 9 sizes as follows: 1/4-20, 3/8-16, 1/2-13, 3/4-11, 1-10, 1 1/4-9, 1 in.-8, U. S. standard threads. Has two stocks one 16 in. and one 29 in. long. Weight 19 lbs., price per set.	\$23.80

Auto and Repair Shop Screw Plate Combination

4-E-633. Consists of 10 dies and taps cutting both standard U. S. threads and S. A. E. auto standard threads. U. S. standard threads 5 sizes: 1/4-20, 3/8-16, 1/2-13, 3/4-11, 1-10, S. A. E.: 1/4-28, 3/8-24, 1/2-24, 3/4-20, 1-20. One 15 1/2 in. stock and adjustable tap wrench. Hardwood box with taps. Weight 10 1/2 lbs. complete.	\$16.75
4-E-634. Combination consists of 16 dies cutting—1/4-20, 3/8-16, 1/2-13, 3/4-11, 1-10, U. S. standard and 1/4-28, 3/8-24, 1/2-24, 3/4-20, 1-20, S. A. E. Price per set.	\$31.95

ARMSTRONG PATTERN ADJUSTABLE STOCK AND DIES FOR THREADING PIPE



The dies are standard in size and are easily adjusted to the variations and size of pipe. The taper at the entrance of the first few threads is greater than the standard taper, thus forcing six of the teeth of the die to do the work of the cutting instead of two or three as in the ordinary die. This causes them to start on the pipe very easily, even though it is burred considerably. Each set is finely finished and packed in a hardwood box.



4-E-2823. Set No. 2. Size of dies, inches, 1/4, 3/8, 1/2, 3/4, 1. Weight per set, 15 lbs. Price complete.	\$7.45
Extra pipe dies from 1/4 to 1 inch each size.	1.25

4-E-2825. Set No. 3. Size of dies, inches, 1/4, 1 1/2, 2. Weight per set, 35 lbs. Price complete.	\$11.15
Extra pipe dies from 1 1/4 to 2 inch each size.	2.75

4-E-2824. Set No. 2 1/4. Dies in this set are double ended. Sizes 1/2x3/4 and 1x1 1/4. Weight of set, 20 lbs. Price, complete.	\$8.65
Extra dies, each size.	1.55

4-E-2826. Set No. 6. Dies in this set are double ended. Sizes 2 1/2x3. Weight per set, 72 lbs. Price, complete.	\$27.85
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Best Made Hay Carrier Tools

Double Swivel Hay Carriers

With Improved Locking Device

Has but two pieces, which makes it an absolutely positive lock. No springs or unnecessary parts to get out of order. Will work either way, by changing pulley from one end of the barn to the other, making it unnecessary to untie the ropes from other pulleys. This simple method is a big feature not generally found in other carriers.
4-E-11301. Wood track double swivel Hay Carrier, complete with stop and fork pulley. **\$6.15**

Price.....
4-E-11303. Steel track double swivel Hay Carrier complete with stop and fork pulley. Price..... **\$6.20**

Double Swivel Sling Hay Carrier

Made of the best malleable iron. Heavy and durable, simple in construction. The special feature of this swivel carrier is that often when the barn is empty it is not necessary to raise a load up to the track, for the load can be raised to any point desired, and tripped, thereby saving not only time but half the distance or more for the horses to travel. Another excellent feature is that it draws the hay or grain direct as the load stands, with no twist in the rope.
4-E-11306. Wood track swivel sling carrier. Price..... **\$10.85**
4-E-11307. Steel track swivel sling carrier. Price..... **\$10.90**

Snatch Pulley Block

4-E-11309. To shorten travel of horse without reducing the power. Horse travels only half the distance hay is carried. Frame is made of malleable iron with iron sheave. For use with manila rope only. Price, each..... **90c**



Iron Yoke Hay Fork Pulley

4-E-11311. With loose hollow pin, hard maple sheave, 6 inch. Price, each..... **15c**

Wood Frame Hay Fork Pulley

4-E-11313. Frame and sheave are made of the best hard maple, fitted with wrought iron yoke, malleable iron eye and swivel springs—the most durable hay fork pulley manufactured. Price, each..... **20c**



Steel Yoke Knot - Passing Pulley

4-E-11315. With maple sheave. 6 inch diameter. Price, Each... **45c**

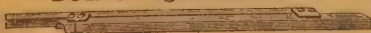
Floor Hooks

4-E-11325. Used to screw to floor to hold pulleys. Diameter, ¾ inch. Price, Each..... **12c**



Double Angle Steel Track

4-E-11319. Made only in five and ten foot lengths. Furnished complete with coupling and bolts. Two end bumpers are furnished with track when 30 feet or more are ordered. Price, per foot..... **18c**



Steel Track Hanging Hooks

4-E-11321. For double steel angle track. Price, each..... **14c**



Wood Track Hanging Hooks

4-E-11323. 14 inches along the bend. Price, each..... **14c**



Self-Locking Sling Pulley

4-E-11333. Can be used in connection with our Double Swivel Hay Carrier. The simplest and strongest sling pulley ever offered. It has no springs, and regardless of how large or how small the load of hay is in the wagon sling it will lock at any place.
 When the knob of the Sling Pulley enters the Hay Carrier, the entire weight of hay is on this knob and throws the lock against the rope between the two pulleys and when the load is dumped and Hay Carrier is returned and strikes the stop block, the knob drops, the sling pulley is unlocked and is ready for another load. Price..... **\$2.70**



Rope Hitch With Swivel Hook

4-E-11317. Malleable iron. Will take rope up to 1 in. Each. **24c**



Joined Hanging Hooks

4-E-11327. Used for hanging wood track to beams without using rafter brackets. Price, each..... **15c**

Galvanized Hay Carrier Cable

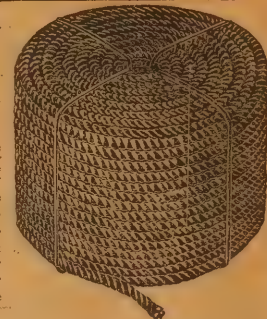


2-E-11353. ¾ inch diameter, composed of 7 wires. Price, per foot..... **5c**
2-E-11355. Clamps for cable Hay carriers. Price, each..... **30c**
2-E-11357. Collars for cable Hay carriers. Price, each..... **22c**

Pure Manila New Rope

2-E-11617.

Made of selected long pure Manila fiber. The ¾ inch is used for the Trip and the ¾ inch is generally used for the Carrier, although in connection with our outfit either the ¾ inch or the 1 inch rope can be used.



Size Inches	Price Per 100 ft.	Size Inches	Price Per 100 ft.
¾.....	\$0.50	¾.....	\$5.60
1.....	1.00	1.....	6.75
1 ½.....	1.90	1 ½.....	9.00
2.....	3.10	2.....	10.50
3.....	4.00	3.....	15.00

Single Harpoon Hay Fork



4-E-11335. Regulation size, made of best materials. Price, each..... **\$2.45**

Double Harpoon Hay Forks

4-E-11337. Short time double Harpoon Hay Fork, 25 inch tine, 16 inches between points. Made of best quality material. Price, each..... **\$2.10**
4-E-11339. Long time, Double Harpoon Hay Fork, tines 30 inches long, 16 inches between points. Price, each..... **\$2.35**
4-E-11341. Double Harpoon Hay Fork, 34 inch tines, 22 inches between points. Designed for handling alfalfa and straw. Can be used, however, for handling any kind of hay. Price, each..... **\$3.60**



Price, each..... **\$3.60**

Hay Grapple Forks

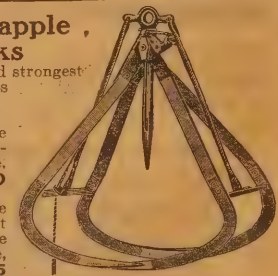
The best and strongest Grapple Forks manufactured.

4-E-11343.

4 tine Grapple Fork for regular work. Price, each..... **\$7.00**

4-E-11345.

6 tine Grapple Fork for short hay, loose straw. Price, each... **\$8.85**



Adjustable Wagon Sling



Made for an 18 foot wagon rack. They can be made shorter for any size wagon by drawing the ropes through the wood bars and tying another knot on each side of wood bars. There is a center trip on all slings and they are fitted with the best and simplest lock. An outfit generally consists of one sling pulley and three wagon slings, so as to take off an entire load in three lots. The trip rope is of proper length, permitting the sling to be easily tripped. Sling pulleys or sling carriers must be used with wagon slings.
4-E-11347. Length, 4 foot. Price, each... **\$3.85**
4-E-11349. Length, 5 foot. Price, each... **4.35**
4-E-11351. Length, 6 foot. Price, each... **4.55**

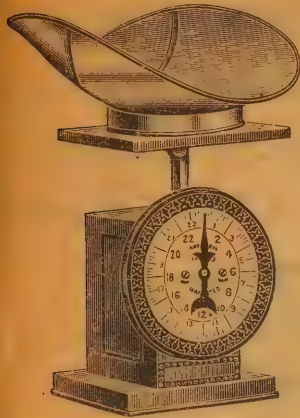
Rafter Brackets

4-E-11329. For Hay carrier track. Price, each..... **5c**



Scales for General Family Use

24 lb. Capacity Vertical Dial



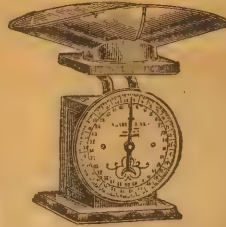
\$1⁸⁰

A strictly high grade scale for family use. Guaranteed to weigh accurately. The body is made of cold rolled steel, nicely nickel-plated and enameled. Springs are made of high grade tempered steel. Equipped with tension screw for perfect regulating and balance. White enameled dial with graduations plainly marked. Capacity 24 pounds, by ounces. Shipping weight, 6 pounds.

4-E-10035. Price without scoop..... **\$1.80**

4-E-10037. Price with tin scoop..... **\$2.15**

60 lb. Capacity



Double Platform Supports

This splendid scale embodies every desired feature of workmanship and material. Guaranteed to weigh accurately. The body is made of heavy cold rolled steel, handsomely enameled and finished. The graduations are plainly marked and easily read. The double platform support is a desirable feature; this distributes the weight evenly and assists the scale in maintaining accurate weight. The platform is 7½ inches square. Capacity of scale, 60 lbs., by ounces. Shipping weight, 10 pounds.

4-E-10017. Price, without..... **\$3.90**

4-E-10019. Price, with heavy tin scoop..... **\$4.75**

24 lb. Capacity



Angle Dial

\$1⁹⁵

4-E-10001. A well made, dependable scale of unusual value for general family use. Body made of cold rolled steel. Nicely enameled. White enameled dial, slants on angle of 45 degrees, can be easily read at a glance. Capacity 24 pounds, by ounces. Shipping Weight 5 pounds. **\$1.95** Each

Blacksmiths' and Machinists' Tools

Blacksmith Plug and Taper



4-E-7121. Right Hand Taper Tap. **4-E-7125.** Right Hand Plug Tap. Made of best grade tool steel. Each tap fully warranted. Always mention number, size and number of threads when ordering.

Size, ½ inch, right hand, 30 or 32 thread to inch.	Price.....	22c
Size, ⅜ inch, right hand, 24 or 26 thread to inch.	Price.....	24c
Size, ¼ inch, right hand, 18-20-22-24 or 26 threads to inch.	Price.....	30c
Size, ⅝ inch, right hand, 16-18-20 or 22 threads to inch.	Price.....	33c
Size, ¾ inch, right hand, 12-14-16 or 18 threads to inch.	Price.....	37c
Size, ⅞ inch, right hand, 12-14-16 or 18 threads to inch.	Price.....	42c
Size, 1 inch, right hand, 12-14-16 or 18 threads to inch.	Price.....	46c
Size, 1 ¼ inch, right hand, 10-12 or 14 threads to inch.	Price.....	50c
Size, 1 ½ inch, right hand, 10-11-12 or 14 threads to inch.	Price.....	55c
Size, 1 ¾ inch, right hand, 8-9-10 or 12 threads to inch.	Price.....	72c
Size, 2 inch, right hand, 8-9 or 10 threads to inch.	Price.....	83c

Machinists' Hand Taps

Size up to 1½ inch. Shanks are full size of threads. Taps ⅝ inch and larger, shanks same size as bottom of thread. All taps are exact size to standard "V" thread.

4-E-7133. Taper taps.

4-E-7135. Plug taps.

4-E-7137. Bottom taps.



Diam. Inch	Number of Threads	Price, Each	Price, Set of Three	Diam. Inch	Number of Threads	Price, Each	Price, Set of Three
⅜	24	17c	\$0.50	⅝	11	54c	\$1.62
½	20	23c	.69	11/16	11	63c	1.89
⅝	18	30c	.90	¾	10	73c	2.16
¾	16	33c	.99	1 ¼	10	84c	2.52
7/8	14	36c	1.08	1 ½	9	96c	2.88
1	12	42c	1.26	1 ¾	9	\$1.08	3.24
1 ¼	12	45c	1.35	2	8	1.20	3.60

Reamers for Wood or Iron



4-E-7131. Made of high grade tool steel, properly

tempered. Used to enlarge holes where punching and drilling are not quite perfect. To be used in bit brace.

Size, inches.....	⅜	½	⅝	¾	1 ¼	1 ½
Price.....	56c	65c	75c	84c	97c	\$1.12

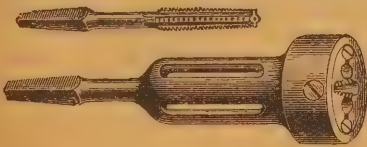
Adjustable Tap and Reamer Wrench



4-E-7129. Strong and durable. Nicely finished. Guaranteed to hold taps and reamers tight.

Length, inches.....	11	16	21
Holds Taps.....	¼ to ½	½ to ¾	¾ to 1
Price.....	\$3.50	\$4.00	\$5.00

Taps—Dies—Holders



Either Tap or Die will work in an ordinary Bit Brace, used largely for tapping Nuts and Threading Bolts.

Making perfect threads at a single cut.

Size, inches.....	⅜	½	⅝	¾	1	1 ¼
4-E-7139. Die, tap, holder, com.....	\$2.85	\$2.85	\$2.85	\$3.35	\$3.50	
4-E-7141. Die only.....	1.50	1.50	1.50	1.75	1.95	
4-E-7143. Tap only.....	.75	.75	.80	.80	1.05	
4-E-7145. Holders, separately, any size, each.....					80c	

Unless otherwise ordered, we will send these taps and dies 1/32-inch over size V thread.

Bells for Farm and Ranch



Styles 1-2-3

A bell is a necessity on a farm. For with it an alarm can be sounded and distinctly heard for a great distance. These bells are made of a crystal composition. They have a clear tone and are best bells for factory or farm manufactured.



Style 4

Thirty Days' Free Trial

4-E-10209. Styles, 1, 2, 3 and 4.

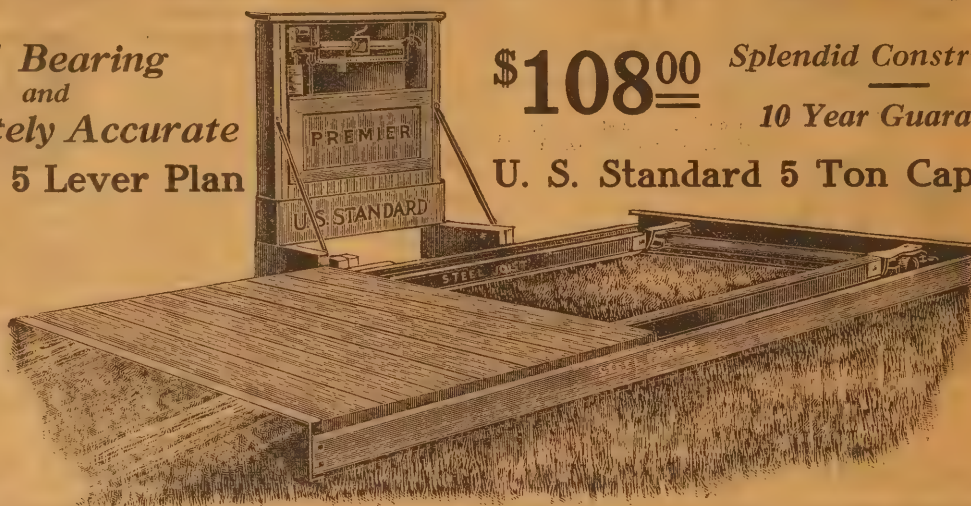
Should any bell we send you prove unsatisfactory after you have given it a careful test and trial for thirty days, send it back and we will return the full purchase price, together with any transportation charges you have paid.

Size No.....	1	2	3	4
Approximate Diameter.....	15	17	19	21
Approximate Weight.....	40	50	75	100
Price, complete, F. O. B. Chicago.....	\$3.50	\$4.25	\$6.00	\$8.20

Premier Steel Scales

Steel Frame Pitless Scales for Stock and Wagons

**Ball Bearing
and
Absolutely Accurate
Built on 5 Lever Plan**



\$108⁰⁰

Splendid Construction

10 Year Guarantee

U. S. Standard 5 Ton Capacity

Premier Scales embody the best features known in scale construction and have many improvements over other pitless scales.

Every bearing rests in an independent, self-adjusting seat, and cannot be thrown out of line. A scale to weigh correctly at all times must swing perfectly clear, and the nearer you come to preventing a bind the nearer perfect your scale will weigh.

Premier Scales are built on the five lever plan, recognized as the best construction by leading scale experts. There are two pipe levers, one at each end of the scale and two arm levers. The two arm levers carry the weight to cross lever, and this lever takes the weight to beam.

The Cross lever rests in an independent stand on a small foundation and this lever is absolutely independent. All levers are stationary and the jar of a load going on the scale or the vibration of the platform will not move them a particle. This means a true bearing at all times and you can be assured correct weights. This cannot be said of scales where the levers swing with the platform and every vibration and jar of the platform directly affects the levers.

A good many Pitless Scales use a cross lever having the main bearing attached to the steel joist. Where this is the case every motion of the platform moves the cross lever, and this form of construction is a source of annoyance, for, the motion of the platform tends to throw the lever from a true bearing, and as soon as any lever in a scale is off a true bearing the scales will weigh incorrectly.

THE BALL-BEARING feature is the crowning one of this scale. It is well known that a scale with ball bearings will wear much longer than one without, and it will remain sensitive and accurate long after the old style needs repairs. No matter how much the corner settles, within a reasonable

form will not bind if the corner settles, but the ball bearings will always roll to center, and stay there.

INTERCHANGEABLE PARTS. All parts of our scale are made standard, and are interchangeable—an advantage not fully appreciated until something happens, and you are obliged to send your whole scale to a shop to have one part adjusted, as is the case with most other scales on the market. It is not so with the "PREMIER." We can ship you any part and you can put it in yourself and the scale will weigh perfectly. The construction throughout is so simple, and there are so few parts to get out of order. **PORTABILITY**—It is often necessary to move a scale, consequently we have paid particular attention to this feature.

THE BEAM. We use only one style beam. We believe it to be the most perfect yet devised—the latest compound full capacity beam, with tare-bar and roller bearing poise. It is made of iron, brass faced, with cast steel spring latch. The upper, or main, bar is notched and graduated in 200-pound notches, up to 10,000 lbs. The small bar is graduated in 2½ lbs., up to 200 lbs. The tare-bar is of solid brass, and has round sliding poise, with thumb screw to secure it, also of brass. It is graduated in 5 lbs., up to 2000 lbs. No loose weight to contend with. Your whole weighing outfit is right on the beam front of you.

DEPTH OF FRAME. Note especially this feature, the frame, over all, is only eight inches high. This is a particularly strong point, as all pitless scales rest on top of ground; and the lower the frame, the easier it is to drive onto it with a loaded wagon.

ADVANTAGES. With a pitless scale you are saved the many annoying and expensive features of the Pit Scale—such as digging and walling the pit; the services of a carpenter to build the frame work; renewing broken and rotten timbers; removing platform to clear out the trash and dirt that constantly accumulates, etc.

OUR GUARANTEE for ten years is made in compliance with laws governing weights and measures and will pass inspection anywhere. They meet all requirements of recently enacted laws in the various states. We guarantee that inspectors will approve them. You are thus assured of durable, accurate scales, with hardened steel bearings, tool steel pivots, platform easily movable and not binding on frame, besides many other improvements.

Capacity, 5 tons. Size of platform, 8 feet by 14 feet. Shipping weight about 1400 pounds. Shipped from factory in Illinois or Missouri.

4-E-9810. Each **\$108.00**

4-E-9811. 10-ton capacity. Platform 8x22. Shipping weight, 2600 pounds. **\$233.00**



**LATEST COMPOUND FULL CAPACITY BEAM
WITH TARE BAR AND
ROLLER BEARING POISE**

amount, the ball bearings are bound to remain in the center of the cups, since it is impossible for them to rest on the sides of the cups. Therefore the plat-

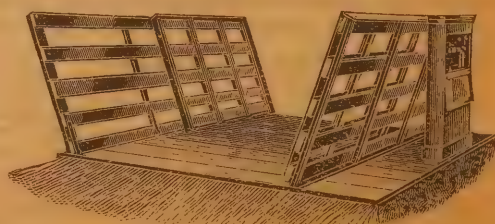
Folding Stock-Rack Irons

With these Irons a most substantial rack can be built upon any wagon-scale platform; and it is no more expensive than the old-style. Rack can be folded back, like shown in cut, requiring less than five minutes' time. As rack is balanced on platform, it does not affect the accuracy of weight. We furnish all the irons to build the rack, with full directions, and specifications for lumber required.

We do not furnish any bolts or lumber. About 200 feet of lumber is required. Weight 30 pounds.

4-E-9812. (Irons only), for building rack, 8x14x5 feet.

Price **\$4.50**

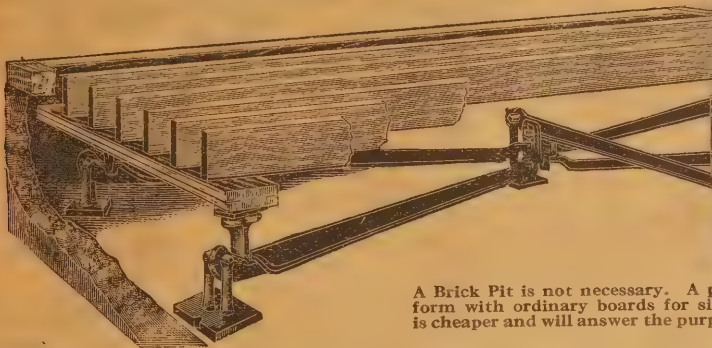


Guaranteed Construction Premier Pit Scales

Brick Foundation Not Necessary

Accurate Weight Means Real Savings—Guaranteed To Be Accurate

**Strong, Well Made Beam Box \$65⁰⁰
5 and 10 Ton Capacity**



A Brick Pit is not necessary. A platform with ordinary boards for siding is cheaper and will answer the purpose.

The principle of this Scale is absolutely correct. Each lever upon which the platform rests conveys the weight that is put on it to the beam, independently of the other levers. By referring to illustration you will note that the four principal levers on which the platform rests are hung between an iron stand at the outer end and a loose shackle at the center; each lever being perfectly free to move by itself, and the weight is transmitted to the beam through the fifth lever, which has no other function. The large illustration shows this scale just as you would set it in a pit. It shows the iron stand resting on the mud sills, which may be of solid timber, or any 2-inch built-up material as shown. The floor or platform is 8 feet wide and 14 feet long. The Beam Rod goes up to beam from end of lever. Scale has five levers of the best quality of cast iron and is made heavy and strong.

It also has the valuable Ball Bearing feature. In fact, we manufactured and sold thousands of these scales before pitless scales were thought of, and while we now recommend the pitless scale wherever it can be used, there are some places and conditions where the pit scale is better adapted; for instance, where the scale must be set level with the surface, or where there is not room to build the approaches.

Our Brass Compound Beam with Roller Bearing Poise enables you to weigh quickly and accurately, and you have no loose weights to bother with. Timber required for 5-ton scale. Any timbers that are more than two inches thick can be made by spiking two-inch stuff together. Bearing planks, two pieces 4x8—7 1/2 feet long. Joists, six pieces, 2x8—14 feet long. Floor, fourteen pieces, 2x12—8 feet long. Coping, sides two pieces, 6x6—15 feet long. The coping must be mortised at the corners, and they should be square, the opening to be 8x14 feet. The levers do their own measuring—all that is necessary is to get the mud sill under the stand; it does not matter if scale is set square or diamond shaped—it weighs just the same. No other scale made has this flexibility.

4-E-9905. 5-ton capacity Premier Pit Scale. Platform, 8x14. Weight, 525 lbs. Shipped from Illinois or Missouri. **\$65.00**

4-E-9910. 10-ton capacity Premier Pit Scale. Platform, 8x22. Weight, 1000 lbs. Shipped from Illinois or Missouri. **\$130.00**

Timbers or planks for this scale are not included.

HIGH GRADE PLATFORM SCALES

Adjusted and Sealed to U. S. Standard Weights



\$25²⁰

**Premier
Portable
Weightless
Scales**

**Accurate Balancing
Ball Easily Operated**

Premier Portable Weightless Scales are built to withstand the wear and tear of heavy weighing.

No loose weights to get lost, as the full capacity of the scale is shown on the brass beam.

The weighing beam is of brass, consisting of two bars, the upper bar with small sliding poise is graduated in half pound marks up to 100 pounds, lower bar with large poise is notched and graduated in 100 pound marks to the balance of the capacity of the scale.

Accurately sealed to United States Standard Weights. Finely finished and fully guaranteed.

We specially recommend this scale for store and factory requirements.

4-E-9926. With Double Beam

Cap. Lbs.	Size of Platform, Inches	Shipping Weight	Price
600	16x22 1/4	150	\$25.20
800	17x23	160	\$28.00
1000	18x25	170	\$30.75
1200	18x27	180	\$35.00

**Premier
Single Beam
Platform Scales**

\$21⁰⁰

THE BEST Scale at a medium price that money will buy from any house.

Every Farmer should have a portable scale, as it will save cost many times during the year, especially at the price we offer it. We are able to quote this extremely low price because of the quantity we use. We know that when you see it you will agree with us as to its great value.

They are built with steel pivots, carefully hardened and finished. Platform rests on adjustable chilled bearings, which take all the wear off the steel pivots, and as pivots remain sharp, the scales are always quick and sensitive.

It is made of the very best material and workmanship throughout, neatly finished, strong and accurate.

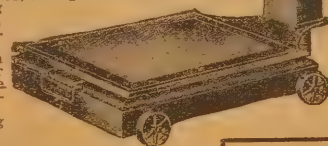
Solid brass weighing beam, graduated in 1/2 pounds, with brass sliding poise.

Shipped promptly from warehouse stock near Chicago, and guarantee perfect satisfaction or refund your money.

Made in the following sizes:

4-E-9922. With Single Beam

Capacity, Lbs.	Size of Platform, In.	Shipping Weight	Price
600	16x21	140	\$21.00
800	17x23	150	\$24.50
1000	18x25	160	\$26.60
1200	18x27	165	\$30.80

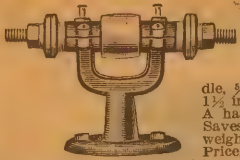


Premier Scales are carefully prepared for shipment so that they will arrive in perfect working order. They are shipped to you for quick service, direct from our factory in Illinois or Missouri.

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Two-Wheel Power Emery Grinders

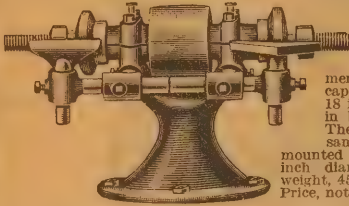
No. 1 Two-Wheel Emery Grinder



\$3.40

16-E-587. This sturdy little machine runs two wheels. Recommended size, 6x1, maximum wheel capacity, 8x1. Has 3/4 inch steel spindle, 1/2 inch between flanges, pulley 1 1/2 inch diameter, 1 1/2 inch face. Just the thing for the small work shop. A handy little grinder that you will use constantly. Saves your time and lessens your work. Shipping weight, 15 pounds. Price, not including stones **\$3.40**
No. 1 Column, weight, 50 lbs **\$7.15**
6-Inch Wheel Guards, weight 9 lbs., per pair **1.80**

No. 3 Two-Wheel Emery Grinder \$11.50



16-E-589. Emery Grinder. Will run two wheels. Recommended size, 10x1 1/2, maximum wheel capacity, 12x2. Has a steel spindle 1 1/2 inch long and 1 1/4 inch diameter in bearings, 1 inch between flanges. The bearings are 3 inches long, and same style as engine-lathe bearings, mounted with brass oil cups. Pulley 3 1/2 inch diameter, 2 1/2 inch face. Shipping weight, 45 lbs. Price, not including stones **\$11.50**

No. 3 Column, weight 80 lbs **\$12.00**
10-inch Wheel Guards, weight 28 lbs., per pair **3.75**

Blacksmith and Garage Grinders, \$24.85

These high grade Blacksmith and Garage Grinders, made in three sizes with wheel capacity of 10 to 18 inches. Strongly constructed; Babbitted long bearings; covered oil lubricators and longer in distance between wheels than average grinders of same capacity, making grinding of shares and irregular shaped castings very simple. Regularly furnished with tight and loose pulley, but single pulley furnished at same price when specified. Tool rests strong and adjustable. Largest size suitable for small foundry work.



SPECIFICATIONS

Machine No.	16-E-C5	16-E-15	16-E-05
Recommended Wheel Size.	10x2	14x2 1/2	16x2 3/4
Maximum Wheel Size.	12x2 1/2	16x3	18x3
Length of Spindle	24"	32"	40"
Diam. of Spindle in Bearing	1 1/4"	1 3/4"	1 3/4"
Diam. of Spindle Between Col.	1"	1 1/4"	1 1/4"
Distance Between Wheels	17"	22"	29"
Hght. Floor to Center of Spin.	36"	30"	30"
Size of Pulleys	3x3	4 1/2x4	4 1/2x4
Length of Bearings	4"	6"	8"
Ship. Wt. with out Guards.	100 lbs.	150 lbs.	225 lbs.
Shipping Wt. of Guards.	28 lbs.	45 lbs.	55 lbs.
Price without Rests.	\$20.00	\$26.60	\$37.00
Price Extra for Rests.	1.20	3.70	4.40
Price Extra for Guards.	3.65	5.30	7.30
Price Complete.	24.85	35.60	48.70

Wheel Capacity
10 Inch to
18 Inch

"Premier" Corundum Wheels

These wheels are made with the grain running from fine to coarse and of proper hardness to meet the requirements for any kind of grinding.

When ordering be sure and state what kind of material you wish to grind. Whether it is for steel or iron or for edge tools and if for wet or dry grinding. Always mention number, diameter and thickness of wheel and size of hole in center.



No. 16-E-2528.

PREMIER SPECIAL SAW GUMMER-CORUNDUM WHEELS

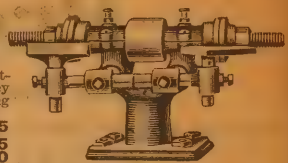
These wheels are made especially for saw gumming purposes and are guaranteed not to burn or harden steel. They cut fast and leave the saw teeth free from burrs or rough edges.

When ordering be sure and state diameter, thickness of wheel and size of hole in center. 16-E-2669, Round Face; No. 16-E-2660, Bevel Face.

Diameter	Thickness, Inches			
	1/4	3/8	1/2	3/4
6 Inches.	\$0.75	\$0.85	\$0.90	\$1.10
8 Inches.	1.00	1.15	1.30	1.65
10 Inches.	1.35	1.65	1.85	2.30
12 Inches.	1.85	1.95	2.25	2.85
14 Inches.			2.90	

No. 2 Two-Wheel Emery Grinder, \$6.75

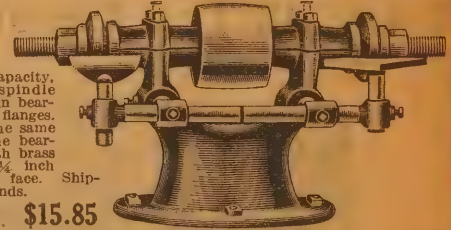
16-E-588. This machine will run two wheels. Recommended size, 8x1 1/2, maximum wheel capacity, 10x1 1/2. Has a steel spindle 1 1/2 inch in bearing, 3/4 inch between flanges. The bearings are 2 inches long, made with caps, and are adjustable. Mounted with brass oil cups, pulley 2 1/2 inch diameter, 2 inch face. Shipping weight, 25 lbs. Price, not including stones **\$6.75**
No. 2 Column, weight 60 lbs **8.05**
8-Inch Wheel Guards, wt. 18 lbs., per pair **2.70**



No. 4 Two-Wheel Emery Grinder, \$15.85

16-E-590.

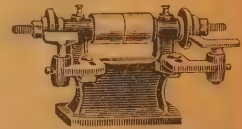
Emery Grinder. Will run two wheels. Recommended wheel size, 12x2; maximum wheel capacity, 14x2. Has steel spindle 1 1/2 inch diameter in bearings, 1 inch between flanges. The bearings are the same style as engine-lathe bearings. Mounted with brass oil cups, pulley 4 1/2 inch diameter, 3 1/2 inch face. Shipping weight, 75 pounds. Price, not including stones **\$15.85**



No. 4 Column, weight 100 lbs **\$14.90**
12-Inch Wheel Guards, weight 38 lbs., per pair **5.35**
14-Inch Wheel Guards, weight 45 lbs., per pair **7.30**

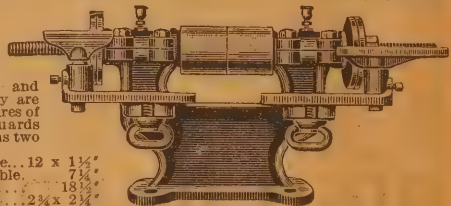
No. 10 Two-Wheel Emery Grinder, \$4.50 WITH TIGHT AND LOOSE PULLEYS

16-E-407. A durable grinder for light tool and general work; will run two wheels. Recommended wheel size, 6x1, maximum wheel capacity, 7x1. Has steel spindle, 1 1/2 inches long, pulley, 1 1/2 inch diameter by 1 1/2 inch face, 1/2 inch between flanges. Two rests can easily be adjusted or removed. Shipping weight, 20 lbs. Price, not including stones **\$4.50**
No. 10 Column, weight, 55 lbs **\$8.05**
6 inch Wheel Guards, weight 9 lbs., per pair **\$1.80**



No. 400 Two-Wheel Emery Grinder, \$8.80 WITH TIGHT AND LOOSE PULLEYS

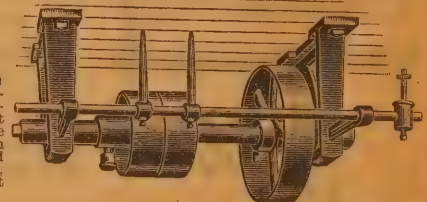
Long Babbitted bearings, easily adjustable tool rests and large wheel capacity are the distinctive features of this machine. Guards attach to head. Runs two wheels 10x1 1/2. Maximum wheel size, 12 x 1 1/2. Height spindle to table, 18 1/2. Length of spindle, 18 1/2. Size of pulleys, 2 1/2 x 2 1/2. Bore of wheel, 1 1/2. Dist. between wheels, 12. Shipping weight, 42 lbs. Column for No. 400, weight 85 lbs. **\$14.50**
Wheel Guards, weight 25 lbs., per pair **4.05**



16-E-406. Price, \$8.80 Not including stones.

Counter-shafts

These countershafts are of superior construction and guaranteed to be in perfect alignment. They are furnished complete with drive pulley, tight and loose pulleys, hangers, shifting rod and belt shifter.



16-E-597. Size No. 1.
Size of Drive Pulley, 8x2 inches
Size of Tight and Loose Pulleys, 4x2 inches
Length of Shaft, 18 inches
Drop of Hanger, 6 inches
Diameter of Shaft, 1 inch
Shipping Weight, 40 lbs.
Price, **\$6.40**
Will fit our No. 1 Bench Emery Grinder.

16-E-599. Size No. 3.
Size of Drive Pulley, 10x3 1/2 inches
Size of Tight and Loose Pulley, 5x3 inches
Drop of Hanger, 8 inches
Length of Shaft, 24 inches
Diameter of Shaft, 1 1/4 inches
Shipping Weight, 60 lbs.
Price, **\$10.00**
Will fit our No. 3 Bench Emery Grinders.

16-E-598. Size No. 2.
Size of Drive Pulley, 9x2 1/2 inches
Size of Tight and Loose Pulley, 4x2 inches
Length of Shaft, 21 inches
Drop of Hanger, 6 inches
Diameter of Shaft, 1 1/2 inch
Shipping weight, 55 lbs.
Price, **\$8.25**
Will fit our No. 2 Bench Emery Grinder.

16-E-600. Size No. 4.
Size of Drive Pulley, 12x4 inches
Size of Tight and Loose Pulley, 5x3 inches
Drop of Hanger, 8 inches
Length of Shaft, 26 inches
Diameter of Shaft, 1 1/2 inches
Shipping Weight, 70 lbs.
Price, **\$13.15**
Will fit our No. 4 Bench Emery Grinders.

Garden Implements and Tools

Tree Pruners



4-E-7575. Pruning can be done without climbing or using a ladder. Furnished complete with wood pole. The blade, being thin, offers but slight resistance in cutting. Length complete, eight foot. Price, each.....**\$1.25**



For use of linemen for cutting wires free from the branches. Also is desirable for orchard use. Is supported by a rope, tied in the end of a lever. When released the spring opens the blade. Socket is threaded and can be readily screwed on pole of any required length.

4-E-7565. Extra knives for above Pruner. Each.....**8c**

4-E-7567. Price is for Pruner only and does not include pole or rope. Price.....**\$1.30**

Two Prong Hoe



4-E-7557. Two-pronged forged tempered steel blade. Width, 3½ inches, height 9 inches. 4-foot selected hardwood handle. Strong and durable. Price, each.....**33c**

Warren Pattern Hoe



4-E-7559. Polished steel blade, 6½ ins. wide, 7½ ins. deep. Selected hardwood handle, 4½ feet long. Made in superior manner. Price, each.....**50c**

Weeding Hoe and Rake



4-E-7561. Polished steel blade, 6½ inches wide, 7¼ inches deep. Selected hardwood handle, 4½ feet long. Made in superior manner. Price, each.....**95c**

Hand Cultivator



4-E-7555. Strong and substantial. Has 5-foot pointed foot selected hardwood handles. Price.....**90c**

Grub Hoe Handle



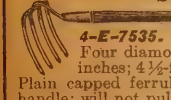
4-E-7521. Selected Hickory handle, length, 36 inches. Price, each.....**34c**

Steel Manure Hook



4-E-7533. Made in a strong, durable manner. With four 9-inch forged steel oval tines. 6-foot selected hardwood handle, plain capped ferrule, riveted through handle, will not pull off. Price.....**\$1.15**

Steel Potato Hook



4-E-7535. Made in a strong, durable manner. Four diamond back crucible tines; length, 6½ inches; 4½-foot extra quality hardwood handle. Plain capped ferrule, riveted through handle; will not pull off. Price.....**\$1.05**

Solid Socket Field Hoe



4-E-7551. A heavy, strongly made, durable Hoe. Suitable for any general field work. Blades are made of high grade forged steel. Heavy one piece steel sockets. Extra quality hardwood handles. 7-inch hoe has 5-foot handle; other sizes, 4½ feet. Width of blade, inches.....
6 70c 6½ 75c 7 80c
Price, each.....

Grass Catcher



4-E-7649. Adjustable grasscatcher. Made of striped canvas, galvanized steel bottom, steel wire frame to fit 12 to 14 inch mower. Price, each.....**95c**

4-E-7651. To fit mowers 16 to 20 inches wide. Price, each.....**\$1.05**

MALLE-ABLE IRON RAKES



4-E-7563. Made in a superior manner and an excellent value. Hardwood handle; length, 5½ feet. Number of Teeth.....
12 14
Price, each.....**43c 46c**

REVERSIBLE LAWN RAKES

4-E-7573. A great favorite. Can be used for grass or leaves, has 24 heavy steel wire teeth. 6-foot selected hardwood handle. Price, each.....**49c**

BRACED STEEL GARDEN RAKE

4-E-7537. The very best garden rake made fitting head in one piece of solid steel. Steel bows well braced. Selected hardwood handles. No. of Teeth.....
12 14
Length handle, feet.....
5½ 6
Price, each.....**90c 98c**

CALIFORNIA PATTERN PRUNING SHEARS

4-E-7545. Extra quality black finish Steel Blade. Malleable handle. Volute steel spring. Length, 9 inches. 2½-inch blade. Price, each.....**75c**

4-E-7547. Extra Quality California Pruning Shears. Bright nickel plated. 2½-inch finely tempered steel blade. Length, 9 inches. Fully warranted. Price, each.....**\$1.85**

PRUNING SHEARS

4-E-7539. Malleable iron handles. Spiral brass spring and link. Length, 9 inches; 2½ inch steel blades. Price, each.....**14c**

4-E-7541. Henry Pattern Pruning Shears. With a volute steel spring. Black japanned handles. Fine tempered steel blade. Length, 8½ inches. Fully warranted. Price, each.....**60c**

Manure Forks

4-E-7527. Strong, durable fork, exceptionally well made. Has 12-inch polished crucible oval steel tines. 4½-foot extra quality bent hardwood handle. Capped and strapped ferrules. No. of tines.....
4 5 6
Price, each.....**\$1.25 \$1.45 \$1.75**

4-E-7531. Extra well made. Has 12-inch polished crucible oval steel tines. Extra quality bent hardwood handle, malleable "D" heads, hardwood grips. Capped and strapped ferrules. No. of tines.....
4 5 6
Price, each.....**\$1.30 \$1.70 \$1.90**

LONG HANDLE MANURE FORKS

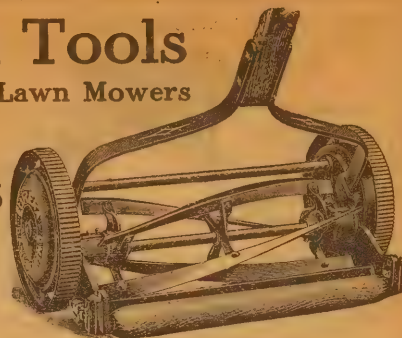
4-E-7525. A strong, well made fork. 12-inch oval polished crucible steel tines. 4½-foot selected bent wood handle. Plain capped ferrule. No. of tines.....
4 5 6
Price, each.....**85c \$1.10 \$1.70**

"D" HANDLE MANURE FORKS

4-E-7529. Strongly made and well finished. Polished oval steel tines. Selected bent wood handle, malleable "D" heads, hardwood grips. Plain capped ferrules. No. of tines.....
4 5 6
Price, each.....**\$1.12 \$1.34 \$1.53**

Lawn Mowers

\$6.75
and
up



These **Light Running Lawn Mowers** are manufactured especially for us in one of the most modern lawn mower factories in this country. These machines embody all latest improvements. The simple construction and quick adjustment being special features of our lawn mowers.

The Eureka and Premier Mowers are **Ball Bearing** type and are guaranteed by us to be the equal of any lawn mower manufactured regardless of price.

Our Comet Mower is of the **Bronze Roller Bearing** type and second in quality only to our ball bearing mowers. Every lawn mower is guaranteed perfect in material and workmanship and will give lasting satisfaction.

Comet Lawn Mower

Wheels 8¾ inches. High grade brass bearings. Three blade. 5½ inch cutting cylinder, continuous shearing. Well made, accurately adjusted.

Number	Blade, inches	Weight, pounds	Price, Each
4-E-7601	12	40	\$6.75
4-E-7603	14	42	7.15
4-E-7605	16	44	7.50

Premier Lawn Mower

Ball bearing. Drive wheels, 10 inches in diameter with extended rim. The ratchet is noiseless and positive in action. Four crucible steel blades, finely tempered. Easily adjusted.

Number	Blade, inches	Weight, pounds	Price Each
4-E-7609	14	53	\$11.95
4-E-7611	16	56	12.50
4-E-7613	18	59	13.00
4-E-7615	20	62	13.80

Eureka Lawn Mower

A ball bearing, 9-inch wheel with extended rim, four fine tempered and ground crucible steel blades. Cutter bar is strong and ground to accurate edge. Cutter bar knife is adjustable.

Number	Blade, inches	Weight, pounds	Price, Each
4-E-7645	14	46	\$10.90
4-E-7646	16	48	11.25
4-E-7647	18	50	11.60

Hazel or Planter's Eye Hoe Handle

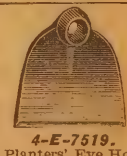
4-E-7523. Selected Hickory Handle, length, 5½ ft. Price, each.....**40c**



4-E-7517. Adze Eye Hazel Hoe. 6 inches wide, 10 inches long. Weight, about 3 pounds. Price.....**97c**



4-E-7515. Adze Eye Grub hoe. 4-inch cut, weight, about 3½ lbs. Price.....**59c**



4-E-7519. Planter's Eye Hoe. Solid forged steel. Weight, about 1½ lbs. Size, inches.....
7 45c
7½ 47c
8 51c
Price, each.....

Mortar Hoe



4-E-7553. A strong, durable hoe. Made especially for mixing mortar and concrete. Has 6x10 inch forged steel blade, solid shank and socket. 6-foot selected hardwood handle. Price, each.....**\$1.15**

Mortar and Concrete Barrow

4-E-10103.

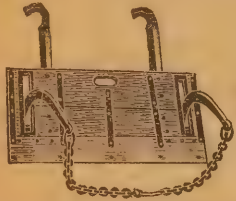
Heavy steel tray, 24 inches wide, 36 inches long. Depth at wheel, 14 inches. Depth at handles, 8 inches. Hardwood handles 1 3/4 x 2 1/4 x 60 inches. Heavy steel angle legs. 17-inch improved steel wheel with malleable hub. Tire, 1 1/2 inches x 3/4 inch with diameter of spokes, 1/2 inch. Capacity, 4 cubic feet. Shipped knocked down. Weight, about 70 pounds. **\$8.75**

Pan Tray Barrow

4-E-10127.

A great favorite with the contractors. Tray is pressed from a single sheet of 16-gauge steel, wired and beaded on edge with 1/4-inch steel rod. The strongest and smoothest Pan Tray Barrow made. Size of tray, 33 x 32 inches. Depth at wheel, 11 inches. Depth at handle, 7 1/2 inches. Capacity, 4 cubic feet. Strongly braced and bolted. 16-inch improved steel wheel with malleable hub, 1 1/2 inch on tread. Shipped knocked down. Weight, about 60 pounds. Price, **\$7.15**

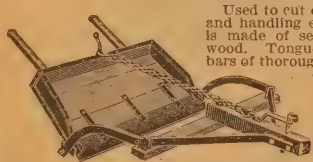
Doan Ditch Scraper



1 1/4 x 3/8 inches, to which is attached a heavy chain. Shipped from Factory, Central Ohio.

4-E-10125. Doan Scraper. Weight, 83 pounds. Price, **\$8.50**

Chicago Tongue Scraper



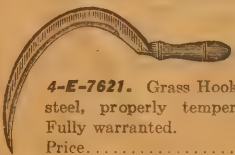
Used to cut or fill ditches and handling earth. Body is made of selected hardwood. Tongue and crossbars of thoroughly seasoned oak heavily strapped, securely bolted and riveted. The draw bars are made of extra quality steel, 1 1/4 x 1/2 inches. Malleable-iron shoes are used, which are superior to steel, being thicker and will last longer. Made with square holes for the shoulder of the bolt. When the nuts are tightened the bolt cannot turn. There is also a socket for the head of the bolt to rest in. Weight, 135 pounds. Shipped from Factory, Central Ohio.

4-E-10133. 43-inch Chicago Tongue Scraper. Price, **\$9.45**

Improved Scythe Pattern



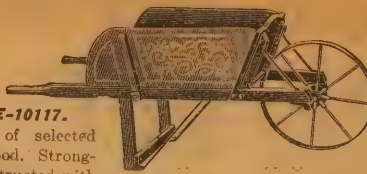
4-E-7623. Grass Hook and Lawn Trimmer. Has crucible steel cutting edges; finely tempered, properly shaped and balanced. Guaranteed to give perfect satisfaction. Price, **25c**



4-E-7621. Grass Hooks. Extra high grade steel, properly tempered, polished edges. Fully warranted. Price, **36c**

Grass Hooks

Garden Barrow



4-E-10117.

Made of selected hardwood. Strongly constructed with steel braces, painted and varnished in a superior manner. Removable sides. Bed length, 28 inches. Width at handles, 20 inches, depth, 12 inches. 20-inch improved steel wheel with malleable hubs. Tire 1 1/4 inches wide. Weight, about 55 pounds. **\$5.75**

Dirt Barrow



4-E-10101. Full sized tray, made of selected seasoned hardwood strongly braced and well bolted. Has 16-inch improved steel wheel with malleable hub, 1 1/4 inch on tread. A strong, durable barrow which will give excellent satisfaction. Shipped knocked down. Weight, about 45 pounds. Price, **\$4.15**

Patent Loop Scythe Snaths



4-E-7639. Selected Seasoned Stock. Properly shaped, nicely finished and varnished. With patent loop and wrench. Price, **\$1.40**

Brush or Weed Snath



4-E-7627. Two Ring Brush or Weed Snath. Selected seasoned stock, nicely finished and varnished. With two loop fasteners. Price, **\$1.90**

Weed Scythe



4-E-7635. Weed Scythe. Painted red. Polished cutting edge. Price, **\$1.25**

Clipper Corn Knife



4-E-7655. Extra quality steel, carefully tempered and ground. Hardwood handle. Price, **35c**

Lightning Hay Knife



4-E-7661. Genuine Lightning Pattern Hay Knife. Made of the finest tool steel, hardened and tempered like a scythe and ground sharp. Price, **\$1.45**

Hay Knives



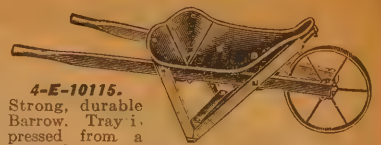
4-E-7659. Blizzard Pattern Hay Knife. Made of high grade tool steel, finely tempered. Price, **\$1.45**

Steel Grass Shears



4-E-7617. High grade forged steel blade. Malleable iron shanks. Fully warranted. Price, **28c**

Steel Tray Barrow



4-E-10115.

Strong, durable Barrow. Tray is pressed from a single sheet of 18-gauge steel without seam or lap, with edge turned over a 3/4-inch rod, which stiffens tray and gives it a round finished edge. Tray is mounted on triangular blocks which elevate the front and make it possible to carry a larger load without spilling. Has 16-inch improved steel wheel with malleable hub. 1 1/2-inch on tread. Shipped knocked down. Weight, about 47 lbs. Price, **\$5.40**

Tubular Steel Barrow

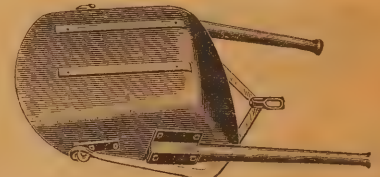


Made entirely of steel. For handling coal, mortar, concrete, etc. Tray is stamped from one piece of 15-gauge steel with beaded edge. Handles made of tubing.

4-E-10129. Length on top, 32 inches, width on top, 28 inches. Depth at wheel, 7 inches. Depth at handles, 5 inches. Capacity, 3 cubic feet. Price, **\$8.95**

4-E-10131. Tubular Steel Wheel Barrow. Length on top, 37 inches, width on top, 29 1/4 inches. Depth at wheel, 9 inches. Depth at handles, 6 1/2 inches. Capacity, 4 cubic feet. Price, **\$9.25**

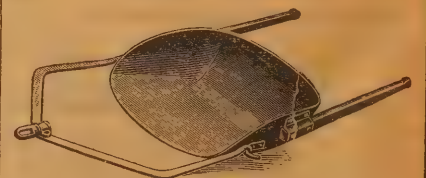
Ohio Road Scraper



Runners are 1/4-inch steel put on with straight rivets. The bail, malleable swivel, also draw hooks and body, are of somewhat lighter material than used in our Premier Scrapers. The capacities are the same. The No. 1 weighs about 80 pounds; No. 2, about 70 pounds and No. 3 about 66 pounds. Shipped, Central Ohio.

	3	2	1
4-E-10111. Smooth bot....	\$6.50	\$6.80	\$7.15
4-E-10113. Double run....	7.10	7.45	7.70

Drag Scrapers



Made of 11 gauge high carbon steel. Have round back and curved bottom, reducing friction to a minimum. Have high sides, thus assuring the full capacity claimed.

	No. 1	No. 2	No. 3
	7	5	3
	cu. ft.	cu. ft.	cu. ft.
4-E-10105. Without runners...	\$8.35	\$8.00	\$7.70
4-E-10107. With 2 runners...	9.00	8.70	8.30
4-E-10109. With flat plate...	9.65	9.35	9.05

Bush Hooks With Handles

4-E-7657. Bush Hooks. Made from high grade tempered tool steel. Strong and serviceable. Complete with handle. Price, **\$1.75**

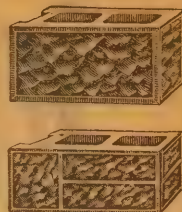


X-L-All Senior Cement Block Machine

The fastest machine on the market and extremely simple in construction and operation, as you will note from the illustrations, having absolutely no complicated parts to get out of order. Each machine is made in a thorough workmanlike manner with best gray iron castings; all parts are machine finished and made interchangeable.

Complete List of Parts Furnished

- | | |
|----------------------------------------------------------------|-----------------------------------|
| 1 Plain Face Plate for making whole blocks. | 1 Steel Striker. |
| 1 Plain Face Plate for making one-half and one-quarter blocks. | 1 Sample Wood Pallet. |
| 1 Rock Face Plate for making whole blocks. | 2 Core Plugs. |
| 1 Rock Face Plate for making one-half and one-quarter blocks. | 1 Right Hand Core End Door. |
| 1 Left Hand Rock Face End Door. | 1 Left Hand Core End Door. |
| 1 Left Hand Plain Face End Door. | 2 Pallet Plugs. |
| 1 Double End Taper. | 1 Sample Iron Pallet. |
| 1 Dividing Plates for 1/2 and 1/4 size blocks. | 1 Steel Plate for inside corners. |
| 1 Graduating Bar. | 1 Steel Carrier. |
| 1 Steel Plate for making Gable Blocks. | 2 Joist Block Attachments. |
| | Face Plates to make 1/4 blocks. |



Our Concrete Block Outfits are more complete than furnished with any other similar type of machine. With this outfit you can make a full block, one-half and one-quarter blocks return corner blocks, also round corner window blocks and joist blocks in both Rock and Plain Face Design. We give you your choice of any 2 styles of faces that you desire, but unless otherwise specified, we always furnish THE X-L-ALL MACHINE with a plain and rock face.

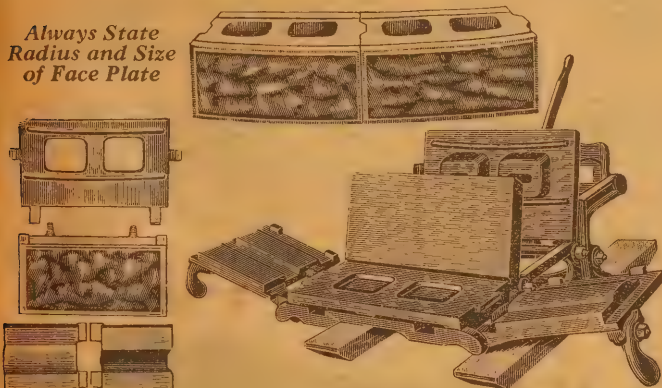
Lot No. 4-E-1218.	8x8x16 machine complete as above, weight 450 lbs.	\$ 95.00
Price		
Lot No. 4-E-1220.	8x10x16 machine complete as above, weight 480 lbs.	105.00
Price		

The X-L-All Machine is designed for the use of either iron or wood pallets. We recommend iron pallets; they cost but very little more than the wood pallets properly made. More blocks are lost by the use of poorly made wood pallets than the value represented by a full set of iron pallets. Iron pallets do not warp, and are practically indestructible. We furnish 1 each sample iron and wood pallet with each X-L-ALL BLOCK MACHINE.

If you want to make 8 x 8 x 16 inch and 8 x 10 x 16 inch blocks, it is not necessary to purchase two complete outfits. All that is necessary for you to order is one extra mold box outfit, which is described and illustrated on this page. You will thus have equipment for both size blocks at but a small additional investment.

Machine and parts are shipped direct from factory, near Chicago.

Always State
Radius and Size
of Face Plate



X-L-All Silo Block Making Attachment

You Will Save Cost of Machine on One Silo

The illustration at the left is our Junior X-L-ALL Silo Machine attachment with mold box open. Note the curved face plates with beveled ends so as to make tongue and groove block so as to accommodate 6, 8, 10 and 12-foot radius, making a perfect close and lock joint. Also note half round in black plate, which leaves a concave in finished block to receive the reinforcement wire. Note the lock joint and groove for wire.

You can make silo 12 ft. in diameter, 16 ft. in diameter, 20 ft. in diameter, and 24 ft. in diameter, and any height you may desire.

Silo block attachment that we can furnish for X-L-ALL Senior machine. Not found in any other make of machine but the X-L-ALL.

Lot No. 4-E-1254. Size 8 x 8 x 16. Weight, 70 lbs. Price..... \$21.00

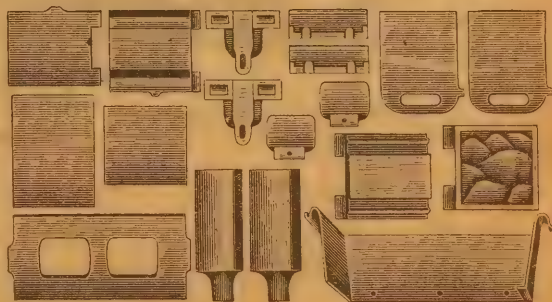
Lot No. 4-E-1256. Size 8 x 10 x 16. Weight, 90 lbs. Price..... 22.00

Always state radius and style of face plates wanted, whether rock or plain.

Mold Box and Mold Box Outfit

\$42⁰⁰

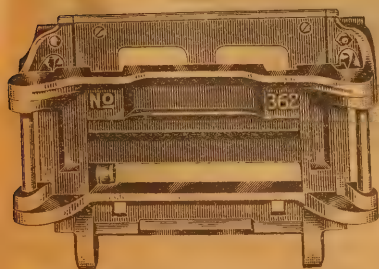
If you wish to make two size blocks, include with your order a mold box outfit. These outfits consist of 2 core hole plugs—2 pallet plugs—2 joist attachments—2 core end doors—1 plain end door—1 rock end door—1 cast iron pallet—2 dividing plates—1 carrier. All face plates are interchangeable, fit any mold box, and only one set of face plates are necessary.



The illustration above shows the equipment which we furnish with extra mold boxes for X-L-ALL Machines.

Prices for mold box outfits complete with mold box:

4-E-104.	Size 8 x 8 x 16 in.	Price.....	\$42.00
4-E-105.	Size 8 x 10 x 16 in.	Price.....	45.00

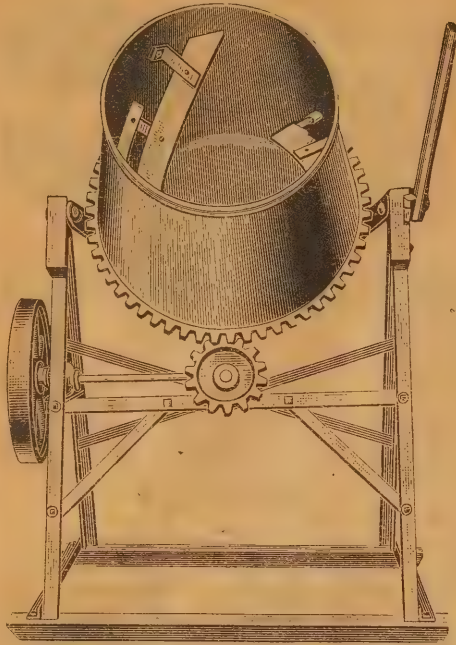


The above illustration shows the mold box we furnish with this mold box outfit.

The Outfit Includes:

- | | |
|-------------------|--------------------------------------------|
| 1 Mold Box. | 2 Dividing Plates. |
| 1 Iron Pallet. | 2 Core Hole Plugs. |
| 2 Cores. | 2 Pallet Plugs. |
| 1 Rock End Door. | 2 Joist Attachments. |
| 1 Plain End Door. | 1 Piece of steel for Gable Blocks. |
| 2 Core End Doors. | 1 Piece of Steel for Inside Corner Blocks. |
| 1 Carrier. | |

CONCRETE MIXERS



\$55

Capacity
3 to 3½ Cu. Ft.

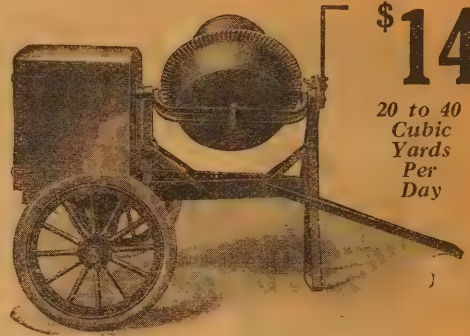
Mixes
a Batch
Every
Minute

Use 1½ H. P.
Engine

Made throughout of the best iron and steel with patented reverse unloading gear which forces a discharge by merely tipping the drum. Perfectly balanced and easy to work. Note the extreme simplicity of construction—the few number of parts. Everything easy to get at, nothing to get out of order to delay your work. Operates perfectly by hand or with a 1½ horse-power engine.

8-E-364. Harris concrete mixer for hand or power drive; pulley size, 16x3 inches; width, overall, 3 feet 6 inches; height, overall, 4 feet 6 inches; shoveling height, 3 feet; capacity, 3 to 3½ cubic feet; power required, 1½ H. P.; weight about 300 pounds.
Sale price, each. **\$55.00**

Harris Special Model Concrete Mixer Trailer



\$145

20 to 40
Cubic
Yards
Per
Day

SPECIFICATIONS

Truck—Wheels are 30"x3" regular Ford wheels; 30"x3" Pneumatic Tires of standard brand, with high grade tubes; tree is 4' 6"; axle is 1½" axle steel; heavy brackets thoroughly fastened to axle by steel U-bolts support frame on axle; wheel hubs are steel, fitted with standard Ford bearings.

Frame—Frame is made of 4" steel channel; heavy front and rear standards support the mixing drum, and all bearings are very broad and well supplied with oil cups; the hitch or tow-tongue is made of 1½"x2" angle and is 4 feet long; the supporting frame or leg is made of ¾"x2" bar and is well shaped and bolted to give the machine rigidity while operating on the job.

Drum—The mixing drum is 27" in diameter and 24" deep and has an 18" opening. It contains no moving parts to wear, break or cause trouble. The rotation of the drum, combined with its shape and with the aid of four heavy mixing plows or blades, imparts to the batch a rolling, tumbling, plowing, churning motion that insures a thorough mix in one minute's time.

8-E-409. Length overall, without tow tongue, 5' 3"; width, 5'; height, 5'; weight, 1,000 lbs.
Price, without engine. **\$145.00**

Harris Model "4" Mixer



\$110

Capacity
20 to 40
Cubic
Yards
Per
Day

This machine has a capacity of four cubic feet of loose material per batch or from twenty to forty cubic yards of mixed concrete per day. The front wheels are 18" in diameter; rear wheels 24" in diameter; tires are 3" wide; tread in rear is 46" and in front 28"; axles are 1½" steel and tongue is 44" long.

The mixing drum is 27" in diameter and 24" deep and has 18" opening. It contains no moving parts to wear, break or cause trouble. The rotation of the drum combined with its shape and the action of the four heavy mixing plows impart to the batch a rolling, tumbling, shifting, falling motion that insures a thorough mixing of the materials.

8-E-411. Overall dimensions are: length, 6' 4"; width, 4'; height, 5' 6"; weight, 1,100 pounds. Shoveling height, 3' 4".
Price, without engine. **\$110.00**

Harris Model "6" Mixer



\$149⁰⁰

Capacity
30 to 60
Cubic
Yards
Per
Day

8-E-413. Our Number "Six" mixer has a batch capacity of six cubic feet of loose material and a daily capacity of 30 to 60 cubic yards of mixed concrete.

The front trucks are 18x3" with 28" tread; rear trucks are 24x3" with 48" tread; axles are 1½" rolled steel; tongue is 44" long.

The mixing drum on this Number Six model is 31" in diameter by 28" deep and the opening is 21".

The length overall is 7'; width, 4' 4"; height, 6'; weight 1,650 lbs.; shoveling height, 3' 6".
Price, without engine. **\$149.00**

Galvanized Feed Troughs

Painted Black



Non-Tip Feed Troughs For Hogs, Sheep and Cattle

HERE are the strongest and best feed troughs for all farm feeding. They are made of heavy galvanized iron (about 10 gauge)—no rough edges or sharp corners to harm the stock. The flared legs make tipping impossible. They will not rust, leak or cave in. Made with rounded bottoms easily cleaned—thoroughly sanitary. Cross bars and legs are made of heavy bar iron, securely riveted. Discard your disease breeding, insanitary wood troughs and replace them with these modern steel troughs now. Before shipment we paint them with a good quality of black paint which adds to their appearance and durability.

Prices

Catalogue Number	Width inches	Depth inches	Lgth. feet	Wt. lbs.	Cap. gals.	Price, each	Lots of 3 each	Lots of 6 each	Lots of 12 each
14-E-512	12	6	5	40	15	\$1.95	\$1.85	\$1.75	\$1.65
14-E-812	12	6	8	65	24	2.95	2.85	2.75	2.65
14-E-1012	12	6	10	80	30	3.95	3.85	3.75	3.65

**Ready Now For
Quick Shipment**

A New Model Hog Trough



2 Feet Long

85c
EACH

**Nest compactly for safe economical
shipment and space saving storage**

14-E-1500 An ingeniously made patented hog or poultry trough with numerous splendid features. Made of heavily galvanized bright steel with trough body formed in one piece. Several troughs can be nested together for safe economical shipment and space saving storage when not in use. Leg end pieces attached quickly and securely in a few moments. No bolts—rivets or solder. No joints to open—no dirt catching crevices or sharp injurious corners. Braced by steel cross bar. One size, 2 feet long, weight about 10 lbs.

Each..... **85c**



Famous Watts Corn Shellers

A Few Reasons

*Why You Too Should Own
A WATTS—And NO OTHER*

Because Watts Corn Shellers, in all sizes, are "The World's Best" machines; still you can buy them from us under most liberal terms at big price reductions.

Because these shellers are the most simple machines of their kind ever built—about one tenth the number of working parts as compared to other cornshellers—nothing to get out of order. No delays or waiting for repairs.

Because of their splendid construction and durability—no springs and nothing to wear out. Fewer bearings—less wearing parts.

Because they are the most economical corn shellers to operate. They give you greater capacity and require less power than any other corn sheller.

Because of their big capacity, they do your shelling in the least possible time and get all the corn.

Because they will shell corn in any condition. Irregular sizes, smallest to largest size ears—hard or soft—green or dry. Watts Shellers always shell perfectly and never crack the kernels.

Because any Watts Sheller gets all the corn on the cobs and will pay you a profit on the corn you have not been getting.

Because they have been manufactured and distributed for many years and have always proved themselves to be the best and most efficient corn shellers on the market.

Because there is a size to meet every requirement featuring finest workmanship, greatest durability, utmost efficiency, biggest capacity, least power and lowest prices.

The World's Best Corn Shellers Now Offered at Prices So Low and on Terms So Reasonable You Should Not Delay a Moment Longer

Even though you have no immediate use for a Corn Sheller, we urge you to buy now. All machines in stock at the present time ready for immediate shipment are made from material purchased by the Watts Manufacturing Company before the big price advances of the past year.

Corn growers in every section of the country are getting the full benefits of this great sale. Wherever corn shellers are used, you will find these Watts Machines, the world's best, strongly represented—the choice of men who know.

And remember, this great sale of ours not only offers these famous machines at big price reductions, but you can now buy your Watts Sheller under most liberal terms of payment, as fully outlined on the pages which follow.

30 Days' Free Trial

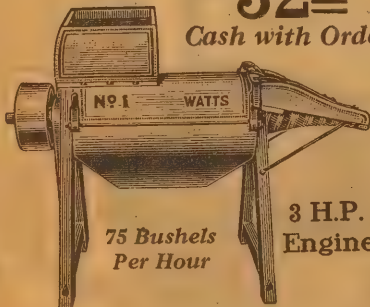
Whether you send us cash in full with your order, deposit the money with your banker or buy your corn sheller on time in three payments, we want you to distinctly understand that your purchase is made under our liberal 30-day Free Trial. This will give you sufficient time to test and use the machine on your own work and convince yourself of the splendid purchase you have made.

Liberal Guarantee

We insist that you be satisfied in every way with your purchase of any Watts Corn Shelling Outfit before we will consider the transaction closed. If you do not find the corn sheller sent you to be exactly as pictured and described in the pages of this book—or if for any reason whatsoever you are not satisfied, your money, including all transportation charges, will be promptly returned without question or quibble.

\$32⁵⁰

Cash with Order



**75 Bushels
Per Hour**

**3 H.P.
Engine**

This is the Smallest of the Watts Corn Sheller line. Recommended for shelling Feed Corn.

Watts No. 1 Corn Sheller

This sturdy little machine is just the size for the man wishing to shell only enough corn for his own needs. It has a capacity of 75 bushels an hour and can be operated to best advantage with a 3 H. P. engine.

The Ears Do the Shelling in Watts Shellers

A heavy cast iron cylinder, with lugs set in staggered rows, serves to keep the ears in motion. These lugs are set in spiral fashion so as to carry the cobs from one end of the shelling jacket to the other.

The No. 1 Watts Corn Sheller has proved to be very popular among stock feeders and farmers with small power. It shells the corn clean from the cob. When so desired, the bran and soft tips of the cobs can be removed with the corn. Many feeders are replacing their cob crushers with a Watts No. 1 Sheller. This machine will shell ears of any size, in any condition, if clean husked. **36-E-900.** Watts No. 1 Sheller, capacity 50 to 75 bushels per hour, length 3 feet 7 inches, width 3 feet, height 3 feet 9 inches, speed 800 R. P. M., equipped with 8x4 inch drive pulley. Weight 180 pounds.

Price, cash after 30 days. **\$33.50**

An Important, Exclusive Feature of Watts Construction

The heavy cast iron cylinder, illustrated at the right, is what does the work in the Watts No. 1 and No. 10 Shellers. It is mounted on a heavy steel shaft running in babbitted bearings. The lugs serve to keep the ears in motion, and being set on the cylinder in spiral fashion, carrying the cobs from one end to the other, the Watts Sheller cleans the cob without cracking the kernels.



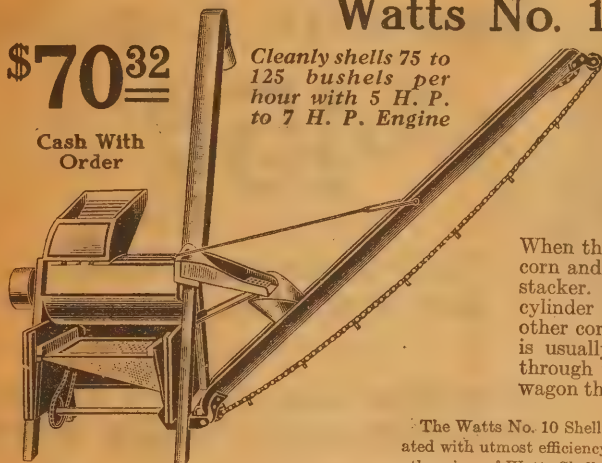
At Big Price Reductions!

Watts No. 10 All Metal Corn Sheller

\$70³²

Cash With Order

Cleanly shells 75 to 125 bushels per hour with 5 H. P. to 7 H. P. Engine



To Take Care of Your Own Needs and Those of a Few Neighbors

This machine is constructed along the same lines as the Watts No. 1 Machine, except that it has a larger capacity and is equipped with a cob stacker and grain elevator. It shells, cleans and loads all the corn and stacks the cobs.

When the shelled corn leaves the shelling jacket, the separation of the corn and cob takes place instantly. The cobs are elevated by the cob stacker. Any corn which remains on the cobs after they leave the cylinder is removed by the oscillating sieve and drops down with the other corn on the cleaning sieve. In this way the corn is saved which is usually thrown out with the cobs. When the corn drops down through the sieve, it is spouted upward through the elevator into your wagon thoroughly cleaned by the cleaning fan.

The above illustration shows a Watts No. 10 Corn Sheller. It is 3 ft. long, 3 ft. wide, 4 ft. high. It is furnished complete with 8 ft. corn elevator and 10 ft. cob stacker. Lagged drive pulley 8 in. diameter, 6 in. face, speed 800 R. P. M. Shipping weight, complete as illustrated, 500 pounds.

The Watts No. 10 Shelling Outfit has a capacity of from 75 to 125 bushels per hour and can be operated with utmost efficiency from any engine developing from 5 H. P. to 7 H. P. This machine and all other sizes of Watts Shellers are sold through either of three plans, which are described in detail at the foot of this page. And remember that, regardless of which plan of payment you choose, you are under no obligations to keep the machine if after 30 days you find that it does not do every bit as much as we claim for it.

36-E-901. Watts No. 10 Corn Shelling Outfit, with cleaning system, cob stacker and grain elevator, complete; cash after 30 days. **\$72.50**

Watts No. 10 All Metal Corn Sheller

Complete With Automatic Feeder

This machine is identical with the No. 10 Sheller, but in addition it is equipped with an automatic feeder.

An automatic feeder is a very valuable asset to a corn shelling outfit in that it keeps the shelling chamber filled to just the right capacity to insure the greatest output of shelled corn at all times. It saves labor, time and corn.

The Watts No. 10 Corn Sheller with automatic feeder is just the outfit for the man who wishes to do all of his own shelling and in addition do some shelling for his neighbors.

This outfit is backed by the same liberal guarantee and is sold under the same terms that have made all sizes of Watts Shellers so popular among corn feeders everywhere. The 30-day free trial offer also applies to this outfit.

The difference in sale prices on this machine complete with automatic feeder and the Watts No. 10 without the feeder is but a matter of a few dollars that will be quickly saved in time, labor and corn.

36-E-902. Watts No. 10 all metal Corn Shelling Outfit, complete with an automatic feeder, cleaning system, cob stacker and grain elevator. Price, cash after 30 days. **\$92.50**



\$89⁷²

Cash With Order

Capacity 75 to 125 Bushels Per Hour with 5 H. P. to 7 H. P. Engine

Cash With Order

Plan No. 1 By sending cash in full with your order, you will be allowed a discount of 3 per cent from the sale price mentioned at the end of the descriptive matter with each machine.

Cash After 30 Days

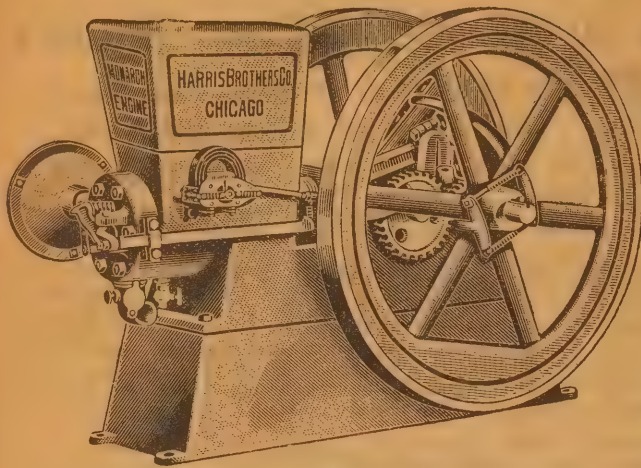
Plan No. 2 If you wish to examine and use the corn sheller for 30 days, send us a letter from your banker stating that the full sale price has been deposited with him, and will be sent to us when you are fully satisfied.

On Time 3-Payments

Plan No. 3 An extra charge of \$2.50, on either the No. 1 or No. 10 is necessary under this plan. Send one-third of the amount with your order and blanks will be sent for your signature for balance to be paid one-third in two months and one-third in four months.

Reliable Monarch Engines

BUILT FOR GASOLINE OR KEROSENE



Monarch Gasoline Engine on Cast Sub Base

Gasoline Engines

$1\frac{3}{4}$ to 7 h. p. **\$45⁰⁰** and Upwards

They Embody All Latest and Best Improvements

Monarch Engines are Simple in design and trouble-proof

Throttle Governor insures smooth operation

These Celebrated Engines —now built for Harris Brothers Co.

Easy starting made certain by vaporizing fuel

THE BUILDERS of these high grade engines, like many other leading manufacturers, were willing to make the necessary price concessions in order that we might use our wonderful sales organization to acquaint thousands of engine users throughout the country with the one real successful gasoline or kerosene engine. Although they have been continually built and distributed for many years, this is positively the first time in their entire history that they have sold direct to the consumer at a price reduction. In every way we have investigated by actual test and convinced ourselves that Monarch Engines are the world's best before we were ready to distribute them. Read the conditions of our liberal terms, our free trial and guarantee forever—the greatest engine offer ever made.

Speed regulator adjustable while engine is running

Monarch Engines are all made complete by one of America's best equipped engine builders. The improved construction embodies all newest and best features with many additional exclusive points of merit. Always sure starting and steady running under any and all conditions. They are constructed throughout of finest material beautifully finished in red enamel artistically striped. Some of the main important features are the detachable cylinder head, perfect poppet valves, malleable iron "I" beam connecting rod, Webster oscillating magneto on all sizes. Note the additional features mentioned at the side of these pages.

Water spray valve for vaporizing fuel

LIBERAL TERMS!

Time to Pay if You Wish!

You can buy your Monarch Engine in any size under most liberal terms: three ways to pay, as follows:

Plan No. 1

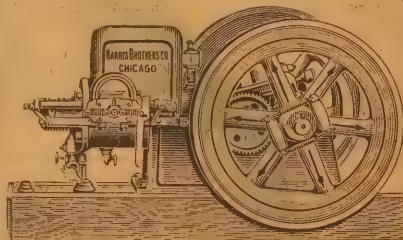
By sending cash in full with order you will be allowed a discount of 3 per cent, from these prices.

Plan No. 2

If you wish to examine and use the engine for thirty days, send us a letter from your banker stating that the full sale price has been deposited with him and will be sent to us when you are fully satisfied.

Plan No. 3

If you wish to buy your engine on time in three payments—an extra charge of \$2.50 will be necessary to cover our bookkeeping expense. Send one-third of the amount with your order and blanks will be sent for your signature for the balance to be paid one-third in two months and one-third in four months.



1½ H. P. Monarch Gasoline Engine

36-E-120. This Monarch Gasoline Engine is the ideal power for operating a small line shaft connected with your Cream Separator, Grist Mill, Fan Mill, Washing Machine, Grindstone or any other small farm machinery. It gives you full rated power at all times at lowest possible fuel expense. Although this is the smallest of the Monarch Engines, all splendid features are embodied in this construction. Monarch Gasoline Engine, size 1½ h.p. (full explanation on opposite page).

Sale price.....**\$45.00**

Conservative ratings develop 20 per cent over ratings shown

Fuel economy: One-tenth gallon fuel per h. p. hour

Solve Your Power Problems!

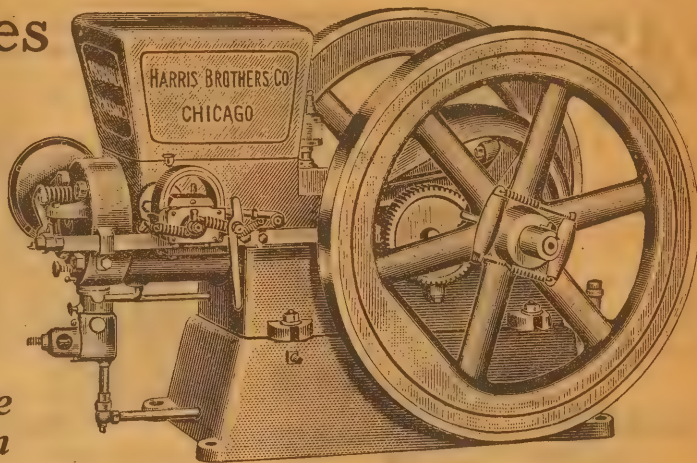
Webster Oscillating Magneto

Kerosene Engines

3 h. p. to **\$87⁰⁰** and
10 h. p. **= Upwards**

*Throttling Governor
Webster Magneto
Kerosene Carburetor*

*Sure Easy Starting—The
Ideal Engine for the Farm*



MONARCH KEROSENE ENGINE ON CAST SUB BASE

SPECIFICATIONS AND SALE PRICES

ORDER NO.	GASOLINE ENGINES				KEROSENE ENGINES			
	36-E-120	36-E-121	36-E-122	36-E-123	36-E-320	36-E-321	36-E-322	36-E-323
Size, H. P.	1½	3	5	7	3	5	7	12
Price on skids	\$45.00	\$75.00	\$100.00	\$150.00	ON CAST SUB BASE ONLY			
Price on cast Sub base		\$79.00	\$107.00	\$160.00	\$87.00	\$113.00	\$170.00	\$290.00
Speed, R. P. M.	500	400	350	325	450	400	370	300
Bore, inches	3½	4½	4¾	5½	4½	4¾	5½	6¾
Stroke, inches	5	6	8	10	6	8	10	12
Pulley, inches	4x4	8x6	12x6	14x8	8x6	12x6	14x8	22x8
Diameter Crank Pin, inches	1¼	1¾	1¾	2	¾	1¾	2	2½
Length Crank Pin, inches	1¾	1¾	1¾	2	1¾	1¾	2	2½
Length Connecting Rod, inches	10½	12½	14½	19	12½	11½	19	26
Length Piston, inches	4	5½	6	7	5½	6	7	9½
No. of Piston Rings	3	3	3	3	3	3	3	3
Fuel Tank, gallons	1	2½	2½	7½	3½	4	8½	11
Weight, Flywheel	34	81	142	250	81	142	250	375
Shipping Weight	225	475	715	1250	485	725	1265	2450

**Monarch
Pumping
Outfits**

Kerosene carburetor designed for cheapest fuel

Cooling Hopper of special design prevents cracking from frost

Modern design embodying all good points

Drop forge crank shaft

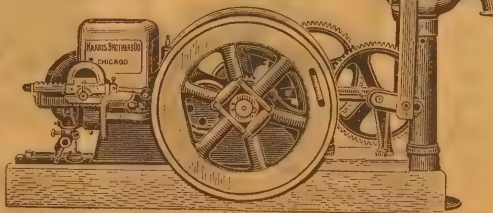
Thick walled cylinder permits boring three times

Ignition Webster's oscillating magneto on all sizes

FREE TRIAL!
Guaranteed Forever!

Whether you pay cash in full for your Monarch Engine or buy it under the conditions of our three payment plan, we will gladly send it to you on trial—our sole object being to satisfy you with your purchase.

We insist that you be satisfied in every way with your Monarch Engine before we will consider the transaction closed. If you do not find the engine we send you to be exactly as pictured and described in these pages, or if for any reason whatsoever you are not satisfied, your money, including all transportation charges, will be returned without any question or quibble. Monarch Engines in all sizes as described on these pages are guaranteed by us to give you the satisfaction you have a right to expect, and if at any future time you find your engine to be defective in material or workmanship, we will cheerfully send you repair parts to place your engine in perfect condition—replace the engine with a new one or hand you back any amount of money you have paid us.



Pump and Pump Standards Not Supplied

Includes regular Monarch Engine and geared pumping jack, mounted on wood skids. Jack is arranged for direct connection to pump standard; no belts. By taking out four lag screws the pumping jack can be removed and the engine run independently.

36-E-329. Monarch direct connected pumping outfit with 1½ h. p. engine and single gear pump jack, height 20 in., 3¾ in. bore, 5 in. stroke, 18 in. flywheel, 5x5 in. pulley, wt. 360 lbs. Price **\$60.00**

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Wonderful Separator Bargains

\$47⁵⁰

**500 Lb.
Capacity**

**3% Off For
Cash or See
Time Pay-
ments Below**



**Triple
Tin
Plated
Anti-
Splash
Supply
Tank**

**Speed
Indi-
cator
Insures
Proper
Speed
at All
Times**

**All Latest
Improvements**

EASIEST

**to Oil
to Clean
to Turn
to Own**

Harris Cream Getter

In this wonderful 500-lb. capacity Harris "Cream Getter" we offer you a separator value that leaves all competition hopelessly behind. This separator is extremely popular—popular because of its handy size, popular because of its peerless skimming efficiency and extremely low price. In all parts of the country, at all seasons, it has carried off every farm test with flying colors.

Produced by expert separator builders in one of the finest, best equipped and most modern factories in the world, this latest model requires but one tool in the daily handling—the spanner part of the combination wrench. Has an oil splash lubricating system that never fails or goes wrong and many exclusive patented improvements to be found in no other machine.

Unusual Trial Offer

Try this separator for any reasonable time. You do not have to make up your mind in any certain number of days or weeks. See Guarantee alongside. Price below includes all accessories F. O. B. Lancaster, Pa., Chicago, or St. Paul, Minn., warehouses. Shipping weight, about 175 lbs.

No. 27-E-500. Size No. 5, 500 lb. capacity.

Special Sale Price..... **\$47.50**

Dimensions: 24 inches to top of supply can. Capacity of supply can, fourteen quarts.

Easy To Buy

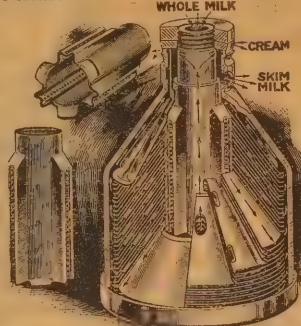
Plan No. 1. One third with your order and balance two months and four months to your own bank. Add \$2.50 to printed prices for cost of handling. Give us the name of your bank.

Plan No. 2. Purchase price to be deposited with your banker thirty days. Send with your order a letter from your banker. Thirty days should be sufficient time for you to make up your mind.

Plan No. 3. Cash in full before shipment secures an additional saving of 3 per cent.

You Can't Beat the Cream Getter

As the bowl is the heart of a Cream Separator so is the Distributing Sleeve the Heart of the "Cream Getter" Bowl.



The above illustration shows the equalizing, distributing and clarifying sleeve and how it completes the proper bowl construction. This is what has been lacking heretofore in Cream Separators and what you need to get the greatest efficiency in the capacity desired with a lighter, easier turning bowl. Other exclusive improvements are the patented Safety Steel Clutch, Radial Cushion, Neck Bearing Spring and Alarm Bell Speed Indicator.

GUARANTEE

We guarantee the Harris "Cream Getter" Cream Separator to be the best you can buy regardless of name, price or make.

We guarantee that if, after you get the Cream Getter, within reasonable time you find you can get any other make at any price which is better according to capacity, we will give you return shipping instructions and refund all of the money you have paid us on the Cream Getter, plus freight charges.

We guarantee the Separator against defects in material and workmanship as long as it lasts and that we will supply repair parts should any ever be needed.

\$30



Cream Getter Junior

Capacity 300 Lbs. Per Hour

Large Capacity—Low in Price—which is made possible by simplicity of construction and a large number of sales.

Our Regular Bowl as above illustrated, is furnished with the "Cream Getter" Junior.

All Gearing enclosed and oiled by Splash System. Latest design, same high grade material and workmanship used throughout as found in our regular Harris "Cream Getter."

Do not waste money by giving your whole milk to the pigs or skimming by old-fashioned methods. Every ounce of butter fat means money to you.

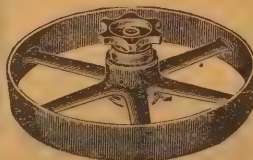
The low price makes it possible for you to own this separator which will take care of the average small herd and pay for itself in a short while.

27-E-150. Without Stand. Weight, 80 lbs. \$30.00

27-E-151. With Stand as illustrated.

Wt., 110 lbs... \$37.50

Cream Separator Pulleys



Harris Cone Clutch

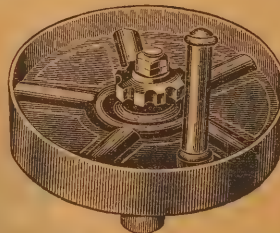
The favorite clutch pulley on account of simplicity of operation and moderate price. Guaranteed to give satisfaction. Has never failed to give the best of service. 14 in., 2 in. crown face.

No. 27-E-125. **\$4.50**

Weight, 15 lbs.

No. 27-E-126. 4 in. extension hub. **\$5.00**

Weight, 20 lbs.



Multiple Disc "Cream Getter" Pulley

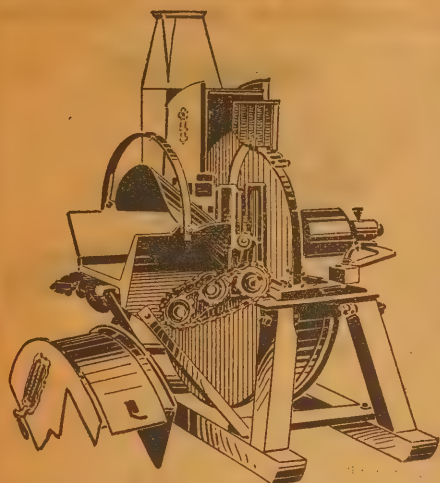
Made especially for "Cream Getters" and finished to match. Can be used for any Separator. Absolutely perfect in operation. Has fourteen steel discs which run in oil. Hub extended 5 1/4 in. Ball bearings. Crank handle to be attached if power fails. 12 in. 2 in. face. Weight, 24 lbs.

No. 27-E-127. **\$10.00**

Special Sale Price.

HARRIS BROTHERS COMPANY, 35th and Iron Streets, CHICAGO

Rumely Advance Ensilage Cutter



The above cut shows the simplicity of the Rumely Advance Ensilage Cutter and gives an idea of the accessibility of all parts when the cover is removed. Note the sure-acting safety device and the provisions for a strong, solid machine throughout.

The delivery pipe is made light, so that it can be put up readily. It is made strong, so that it cannot easily be bent out of shape nor worn by the friction of the silage.

The delivery pipe used with the Advance Silage Cutter is not only smooth inside, to reduce friction; it is also made practically air tight, so that none of the force of the blast is lost on the way—it is all used to carry the silage to the top of the silo. The top of the distributor hood is reinforced by a steel sheet, where the silage strikes it with greatest force in being deflected. This sheet resists the great wear at this point.

Specifications are as follows:

Height of Feeding Table.....	46 inches
Width of Throat.....	15 inches
Capacity of Throat in square inches.....	90 inches

FAN CASE OR DRUM DIMENSIONS

Diameter inside.....	46 inches
Width inside.....	9 1/2 inches
Clearance between fan and case.....	1/2 inch
Gauge steel used for rim.....	No. 10
For sides.....	No. 12

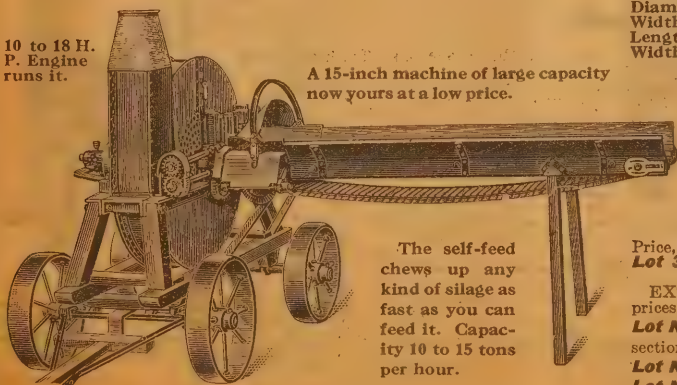
FRAME

Size of angle iron.....	3 1/2 x 3 1/2 x 3/8 inches
Size of wood sills.....	4 x 3 1/4 inches

DELIVERY PIPE

Diameter.....	8 inches
Made of steel gauge galvanized iron.....	No. 22

10 to 18 H.
P. Engine
runs it.



A 15-inch machine of large capacity now yours at a low price.

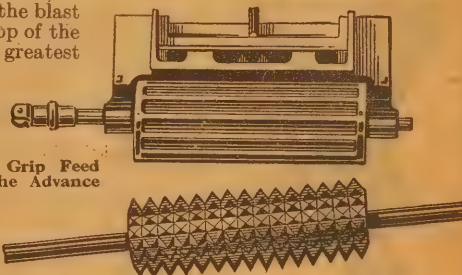
The self-feed chews up any kind of silage as fast as you can feed it. Capacity 10 to 15 tons per hour.

THE Big Complete Silage Cutter, all mounted complete on Steel Horse Trucks. Rumely Advance Silage Cutter is equipped with dependable sure-acting safety device. Can be fed from either side without any change whatever. The starting, stopping and reversing of the carrier can be done from one side or the other with equal ease. An iron yoke is placed directly over the hopper, extending from one side of the feed opening to the other. One end of this is connected with a clutch collar and bevel gear arrangement in such a manner that it can be used as a lever to start, stop, or reverse both the chain carrier and the feed rolls. The Advance Safety Cutter is equipped with one of the best sure-acting Safety Devices; in fact, is the pioneer machine of its kind to be so equipped.

There are four cutter knives used in the Advance Silage Cutter. These are straight, efficient and strong. The chain carrier conveys the material that is to be cut into the feed rolls. It is made of hardwood slats, placed close together, so that no litter can drop between them. The slats are firmly riveted to a double sprocket chain.

The lower half of the drum case is made of heavy steel; being securely riveted, it adds strength in itself and gives support to the cross pieces. This heavy drum wears longer and being almost impossible to penetrate, it serves as a protection, if any foreign article gets into the machine.

The delivery pipe is made of No. 22 galvanized steel, 8 inches in diameter. On each end of each section a malleable iron ring is fixed. Each ring has eight holes. Only four of these are used at a time for bolting the sections together—the other four are provided, so that the pipe can be twisted around, as desired, to turn the distributor in any direction.



The Sure Grip Feed Rolls of the Advance Cutter.

KNIFE DISC

Weight complete.....	375 lbs.
Diameter.....	34 inches
Thickness.....	1 1/4 inches
R. P. M.....	600 to 900

KNIVES

Number furnished.....	4
Width.....	3 3/4 inches
Length.....	18 1/2 inches
Thickness.....	3/8 inch

DIMENSIONS OF TRUCK

Diameter of wheels.....	22 inches
Width.....	3 inches
Length of hub.....	6 inches
Width of wheel track.....	57 inches

Equipment includes:—

Distributor hood for top of delivery pipe.
Feeding platform 30 inches wide and 6 ft. long, and
Galvanized delivery pipe as follows:

- 2—8 ft. sections
- 1—6 ft. section
- 1—4 ft. section
- 1—2 ft. section of 8-inch, 22 gauge galvanized pipe

Price, complete, as above
Lot 36-E-1223..... \$125.00

EXTRA EQUIPMENT: The following extras will be furnished at the prices noted:

- Lot No. 36-E-208.** Hopper for end of distributor, when distributor section is used..... **\$2.50**
- Lot No. 36-E-209.** Inside distributor section, 30 inches long..... **1.00**
- Lot No. 36-E-210.** Extra blower pipe, per foot..... **.50**

Improved Farm Implements

"All Purpose" Feed Grinder and Cob Crusher

16-E-7200. Made in two sizes, built entirely of steel and iron. Will grind ear corn, shelled corn, barley, rye, oats and any kind of grain separately or mixed. Burrs easily regulated for coarse or fine grinding, while machine is in motion. Cob breakers are bolted to sides and bottom of main frame; made of hard chilled iron, arranged in spiral fashion. All bearings fully babitted. Burrs made of most durable metals for long service, being "Crow-foot Pattern."

No. 3 machine with two sets of 8-inch burrs, 35 lb. balance wheel pulley size, 8x6 inches, capacity, 10 to 30 bushels per hour, requiring from 3 to 6 H. P., speed, 300 to 700. Weight, 245 lbs. Price..... **\$22.00**

Extra burrs, coarse or fine, per set..... **\$1.35**

No. 14 Machine with two sets of 10-inch burrs, 55 lb. balance wheel, pulley size, 12x6 inches, capacity, 20 to 60 bushels per hour, requiring from 7 to 12 H. P., speed, 400 to 700. Weight, 355 lbs. Price..... **\$30.65**

Extra burrs, coarse or fine, per set..... **\$1.65**

5 ft. double sacking elevator for either size..... **16.00**

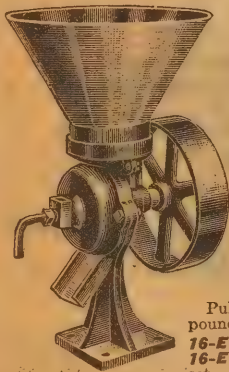
10 ft. wagon box elevator with swing spout for either size..... **22.65**



Ball Bearing End Thrust

\$22.00

Harris Feed Mill



An excellent little mill for light power; taking up small space, just the machine you want where a limited amount of grinding is to be done. Built especially for engines from 1½ to 4 H. P. Capacity, 5 to 22 bushels per hour at 150 to 400 r. p. m., depending on H. P.

Will grind shelled corn, wheat, oats, speltz, barley, rye and all kinds of small grain separately or mixed.

It is built entirely of iron and steel and every part is strong enough to resist six times the actual working strain.

The bearings are long and lined with a high grade babbit and can be oiled while mill is running.

The burrs are 5½ inches in diameter, ground perfectly true. Can be adjusted for fine or coarse grinding while running.

Pulley, 12 inches diameter, 3-inch face, weight, 60 pounds. Furnished with 2 sets burrs.

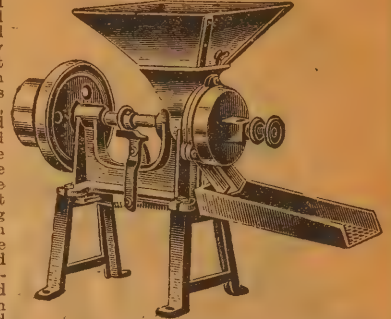
16-E-7117. Price, complete..... **\$7.35**

16-E-7118. Extra Burrs, coarse or fine, per set..... **90c**

16-E-7119. Balance Wheel, 15 lbs..... **\$1.35**

"Up-To-Date" Meal Maker and Feed Grinder

Our "Up-To-Date" meal maker is a combined feed grinder for stock and meal and flour maker for family and table use. It is built for engines or motors from 1½ to 4 H. P. The burrs are 5½ inches diameter, ground perfectly true, and made of the same hard white iron as used in the larger mills. They can be adjusted for fine or coarse grinding while running. It is furnished with Bolting Screen, fitted with cast iron legs and balance wheel like illustration. The perforated bolting attachment is operated by the roller cam and bolts Corn Meal, Graham Flour, etc. Grinds shelled corn, wheat, oats, speltz, barley, rye and all kinds of small grain separately or mixed.



Pulley, 7 inch diameter, 4 inch face or 12 inch diameter, 3 inch face. Furnished with 2 sets of burrs. Capacity 5 to 22 bushels per hour at 150 to 400 r. p. m., depending upon H. P. used.

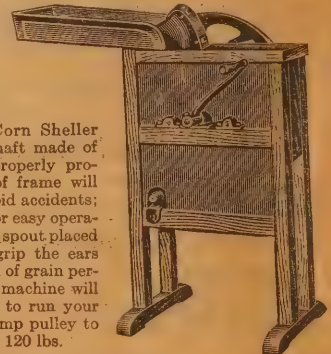
Shipping weight, about 100 lbs.

16-E-105. Improved meal maker complete with 2 sets 5½ inch burrs, bolting attachment, legs and balance wheel. Price, complete..... **\$13.55**

Extra burrs, coarse or fine, per set, weight, 3 lbs..... **90c**

Harris Leader Square Frame One Hole Corn Sheller

\$11.65 Efficient and Durable



16-E-8067. An excellent Corn Sheller with strong hardwood frame. Shaft made of cold rolled steel and all parts properly proportioned. Gearing on outside of frame will not clog; protected by hood to avoid accidents; heavy balance wheel; geared low for easy operation. Good sized feed table. Feed spout placed over two shelling wheels which grip the ears firmly. Adjusted to shell any kind of grain perfectly. When fitted with fan this machine will clean corn nicely. If you intend to run your sheller by power, we furnish a clamp pulley to attach to balance wheel. Weight, 120 lbs.

16-E-8065. Price Complete with Fan and Feed Table..... **\$11.65**

16-E-8066. Price, same Sheller with Round End instead of Square End, Complete with Fan and Feed Table..... **12.00**

16-E-8067. Clamp Pulley (8x2) for either of above..... **.90**

Harris Hand Corn Sheller



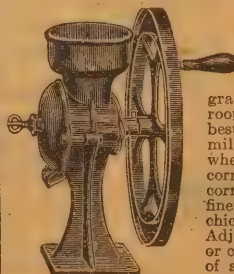
Made of Cast Iron

Handiest and most complete Corn Sheller on the market. This little cast iron corn sheller cannot be equalled for convenience and general utility. It is so simple that there is nothing about it to get out of order and so strong that it will not break.

It can be adjusted to shell large or small ears with equally good results. The adjusting shell is held against the ear of corn by a spring, the tension of which is easily and quickly adjusted. This shell forces the ear of corn against the shelling wheel and causes the ear to revolve so that the corn is shelled from the ear clean. The shelled corn is dropped into the box to which the sheller is fastened, and the ears are dropped outside.

16-E-8061. Weight, 15 lbs. Price..... **\$1.10**

Harris Hand Grist Mill



An improved hand power grinding mill, made in two sizes, for grinding all kinds of grain, dry bone, shells, root bark, salt, etc. The best all around family mill producing cracked wheat, graham flour, and cornmeal, cracked ground corn or other grain of any fineness for feeding young chicks or grown fowls. Adjustable to grind fine or coarse without the use of a wrench. Burrs are made of Steel Alloy Metal.

16-E-8037. No. 1 size, 13" high, 8¼" wide, 12" wheel, weight 22 lbs. Price..... **\$2.35**

Extra Burrs, per set..... **.55**

16-E-8039. No. 2 size, 16" high, 9½" wide, 16" wheel, weight 37 lbs. Price..... **\$4.00**

Extra Burrs, per set..... **.75**

Harris Hand Bone Mill



This little grinder reduces the cost of bone meal to mere labor.

\$4.25

Teeth are strong and coarse and will not grind corn for family use. Fresh bones should be allowed to become thoroughly dry before grinding. It will grind oyster shells, dried bones, gravel, old crockery, cracked corn, and other coarse feed for chickens. Can be adjusted to grind fine or coarse. The crusher is cone shaped, which crushes the product first, then it passes into the coarse grinding plates. This is a much better way than many other mills made with stationary burrs.

16-E-8021. Weight, 35 lbs. Price.... **\$4.25**

Vault Doors, Lockers, Cabinets

Fire-Proof Vault Doors



Made for use in Court Houses, Banks, Offices, Insurance Companies, Post Offices or any place where Fire Proof Safes have been installed. Increase Your Return on any new or old building. Tenant always looks for a place of protection for valuable documents.

Lot No. 16-E-10. Brand New Vault Door Like Illustration

Dimensions: Inside clearance 28x74 inches; made to fit an 18-inch wall. Opening in wall to receive vault, 32x77 inches. Approximate weight, 600 pounds.

The door of this vault is hung on two strong hinges and fitted with a 2x2x1/4-inch steel angle around the entire edge; the door plate being made of 10 gauge steel. The angle is fitted with three cross bolts made of 1-inch cold rolled round steel and securely locked with a Yale Combination Lock. The inner doors are made double of 10 gauge and 14 gauge steel welded

together, having up and down flat bolt work, securely locked with a flat key lock.

The rear flanges are so made that frame can be unscrewed, the vault placed in position, leveled, fitted and tried so that the bolt and locks work perfectly, then all crevices can be filled up and cemented, the rear flanges screwed back and the vault will be ready for use. By making the flange on the rear of the vault in this manner, the building can be completed and vault placed in position without being marred. Price.....

16-E-70—The above vault door with 5-inch angle iron frame only, without vestibule or inner doors.....

When placing order state whether right or left hand swing is desired. Illustration above shows right hand swing.

Overhauled Vault Doors and Safes!!

We have on hand at all times a variety of overhauled vault doors and safes. They are in first-class overhauled condition in every way, painted and all working parts put in the best condition. The handle and dial are re-nickled—will make a very imposing fixture to any office. We have such makes as Hall, Diebold and Harris, all of which are standard on the market. Send us your inquiry, and we will furnish you complete detailed description and lowest prices.

Brand New Steel Lockers



We can now furnish you Brand New Steel Lockers from our Chicago Stock for immediate shipment—like illustration. These are all arranged in units or banks of five compartments wide to a section. They are 12" wide, 15" deep and 60" high, inside measurements. This is the ideal size for general service in offices or factories. All arranged single row fitted with three 2 prong coat hooks; hat shelf and doors have nickel plated number plates. The finish is olive green enamel. Doors are reinforced type, making them absolutely rigid. All lockers have an attachment for padlock, but no padlock is included. The ventilation is provided by six louvers in top and bottom of each opening. The shipping weight is approximately 70 pounds per compartment and unless otherwise stated in order we ship them set up and ready for immediate use. There is considerable saving in freight charges when shipped knocked down and erection is very simple as we include all necessary bolts for assembling and complete simple instructions.

Lot No. 16-E-171—Price per section of five compartments new steel lockers 12x15x60, for padlocks.....
If keylocks are preferred we can supply masterkeyed Yale locks with two keys to each lock, per opening extra.....

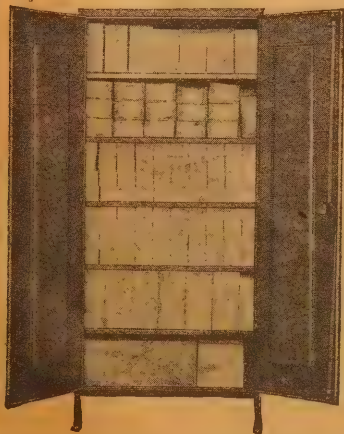
OVERHAULED STEEL LOCKERS

We always have on hand a number of used steel lockers. Give us an approximate idea as to the size you require, stating width, depth and height, and whether single or double tier lockers are preferred, as well as about how many you will need. These are second-hand lockers which come to us in connection with our large dismantling operations, which are thoroughly overhauled before shipment and guaranteed to be in first class condition in every respect and will answer the purpose just as good as new. Sometimes we have brand new lockers in these lots. Steel lockers are sanitary and permanent for shop, factory and office use. It makes your employees more contented. We are in position to quote very interesting prices, so write us today and our low money saving prices will follow by return mail.

Steel Storage Cabinets

These Brand New Steel Storage cabinets are fire retarding; prevent petty thieving and help you keep things in order and keep out dust and vermin. They are being used in thousands of places for the storage of stationery, automobile parts, dies, tools and material and supplies of every kind. They are used by all garages—offices—machine shops—elevators—schools and business men. Every storage need they have is supplied by these cabinets. Built of heavy steel and all equipped with a Yale lock and two keys. Have six-inch adjustable sanitary legs and shelves are adjustable. All cabinets finished in olive green baked enamel and shipped set up.

No. 16-E-1886—Size 18" wide, 18" deep, 60" high, four shelves (five shelf openings) one door; weight, 125 lbs.....
No. 16-E-2456—Size 24" wide, 15" deep, 60" high, four shelves (five shelf openings) two doors; weight, 144 lbs.....
No. 16-E-3487—Size 34" wide, 18" deep, 72" high, five shelves (six shelf openings) two doors; weight, 248 lbs.....
No. 16-E-3487WC—Size 34" wide, 18" deep, 72" high, Wardrobe Cabinet with one shelf for hats—coat hanger rod—coat hooks—two doors; weight, 221 lbs....



Fireproof Safes for Home and Office

These high grade safes offer safety and service in the home or office. They are olive green enamel finish and the outer doors are equipped with Yale non-pickable combination locks. When ordered with inside doors, they have secure keylocks on inner doors, as well as combination on outer door. We also will print your name over the door of safe in shaded gold letters in a neat design, without extra charge, upon request. We list below the most popular sizes, but can furnish larger safes if needed. Send us your specifications. Order by lot number. Prices are F. O. B. cars—factory near Chicago.

\$32⁵⁰

No. 10 Safe—22" High SPECIFICATIONS

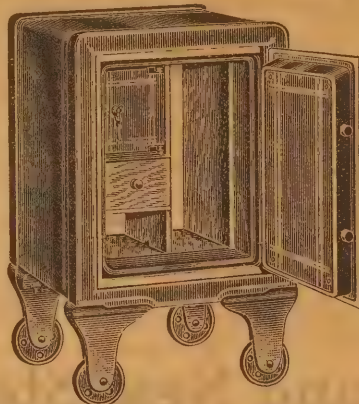
OUTSIDE DIMENSIONS		
Height	Width	Depth
22"	14 3/4"	14"
INSIDE DIMENSIONS		
Height	Width	Depth
11 7/8"	9"	9"

Cabinet Arrangement

One Book Space, 11 7/8" high, 4" wide.
One Sub-Treasury, 5 1/2" high, 4 1/2" wide.
One Knob Drawer, 3" high, 4 1/2" wide.
One Pigeon Hole, 2 3/4" high, 4 1/2" wide.

Approximate weight, 190 pounds.

No. 16-E-72. No. 10 Fireproof Safe.....\$32.50



\$37⁷⁵

No. 28 Safe—26" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
26"	16"	16 1/2"
INSIDE DIMENSIONS		
Height	Width	Depth
16"	11"	11"

Cabinet Arrangement

One Book Space, 16" high, 6" wide.
One Sub-Treasury, 5 1/2" high, 4 1/2" wide.
One Knob Drawer, 3" high, 4 1/2" wide.
One Pigeon Hole, 6 3/4" high, 4 1/2" wide.

Approximate weight, 280 pounds.

No. 16-E-73. No. 28 Fireproof Safe.....\$37.75

\$48⁷⁵

No. 35 Safe—30 1/2" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
30 1/2"	20"	20"
INSIDE DIMENSIONS		
Height	Width	Depth
18 3/8"	13 3/8"	13"

Cabinet Arrangement

One Book Space, 18 3/8" high, 9 1/8" wide.
One Sub-Treasury, 5 1/2" high, 4 1/2" wide.
One Lock Drawer, 3" high, 4 1/2" wide.
One Pigeon Hole, 3" high, 4 1/2" wide.
One Pigeon Hole, 6 1/4" high, 4 1/2" wide.
This safe is made with or without inside door when ordered.

Approximate weight, 470 pounds.

No. 16-E-74. No. 35 Fireproof Safe.....\$48.75

No. 16-E-75. No. 35 Fireproof Safe with inside door.....\$52.25

\$53⁴⁰

No. 45 Safe—33" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
33"	21 1/2"	23"
INSIDE DIMENSIONS		
Height	Width	Depth
20 7/8"	15 3/8"	16"

Cabinet Arrangement

One Book Space, 17 1/4" high, 10 1/2" wide.
One Book Space, 3" high, 10 1/2" wide.
One Sub-Treasury, 5 1/2" high, 4 1/2" wide.
One Lock Drawer, 3" high, 4 1/2" wide.
One Knob Door, 3" high, 4 1/2" wide.
One Pigeon Hole, 3" high, 4 1/2" wide.
One Pigeon Hole, 5" high, 4 1/2" wide.
This safe is made with or without inside door when ordered.

Approximate weight, 580 pounds.

No. 16-E-76. No. 45 Fireproof Safe.....\$53.40

No. 16-E-77. No. 45 Fireproof Safe with inside door.....\$57.60

\$66⁸⁵

No. 54 Safe—39 1/2" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
39 1/2"	24"	21 1/2"
INSIDE DIMENSIONS		
Height	Width	Depth
26 1/2"	18"	15 1/2"

Cabinet Arrangement

One Book Space, 19" high, 12 1/4" wide.
One Book Space, 7" high, 12 1/4" wide.
One Book Space, 9 3/4" high, 5 3/8" wide.
One Sub-Treasury, 6 3/8" high, 5 3/8" wide.
One Lock Drawer, 3" high, 5 3/8" wide.
One Knob Door, 3" high, 5 3/8" wide.
One Pigeon Hole, 3" high, 5 3/8" wide.
This safe is made with or without inside door when ordered.

Approximate weight, 650 pounds.

No. 16-E-78. No. 54 Fireproof Safe.....\$66.85

No. 16-E-79. No. 54 Fireproof Safe with inside door.....\$75.50

\$73⁷⁵

No. 56 Safe—39 1/2" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
39 1/2"	24"	24 1/2"
INSIDE DIMENSIONS		
Height	Width	Depth
26 1/2"	18"	18 1/2"

Cabinet Arrangement

One Book Space, 19" high, 12 1/4" wide.
One Book Space, 7" high, 12 1/4" wide.
One Book Space, 9 3/4" high, 5 3/8" wide.
One Sub-Treasury, 6 3/8" high, 5 3/8" wide.
One Lock Drawer, 3" high, 5 3/8" wide.
One Knob Door, 3" high, 5 3/8" wide.
One Pigeon Hole, 3" high, 5 3/8" wide.
This safe is made with or without inside door when ordered.

Approximate weight, 700 pounds.

No. 16-E-80. No. 56 Fireproof Safe.....\$73.75

No. 16-E-81. No. 56 Fireproof Safe with inside door.....\$79.25

\$85²⁰

No. 62 Safe—44" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
44"	26 3/4"	24"
INSIDE DIMENSIONS		
Height	Width	Depth
30 3/4"	20 3/4"	17"

Cabinet Arrangement

Two Book Spaces, 15 1/4" high, 7 1/4" wide.
One Book Space, 16 3/4" high, 5 3/8" wide.
Four Book Spaces, 7 1/4" high, 7 1/4" wide.
One Sub-Treasury, 6 3/8" high, 5 3/8" wide.
One Lock Drawer, 3" high, 5 3/8" wide.
One Knob Door, 3" high, 5 3/8" wide.
This safe made with or without inside door when ordered.

Approximate weight, 900 pounds.

No. 16-E-82. No. 62 Fireproof Safe.....\$85.20

No. 16-E-83. No. 62 Fireproof Safe with inside door.....\$91.20

\$91⁰⁰

No. 64 Safe—47 3/4" High SPECIFICATIONS

OUTSIDE DIMENSIONS		
Height	Width	Depth
47 3/4"	28 3/4"	24"
INSIDE DIMENSIONS		
Height	Width	Depth
32 3/4"	21 1/4"	17"

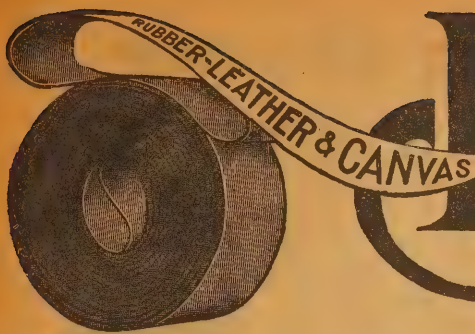
Cabinet Arrangement

Four Book Spaces, 16 1/4" high, 7 3/8" wide.
One Book Space, 16 3/4" high, 5 3/8" wide.
One Sub-Treasury, 6 3/8" high, 5 3/8" wide.
One Lock Drawer, 3" high, 5 3/8" wide.
One Knob Door, 3" high, 5 3/8" wide.
One Pigeon Hole, 2 3/8" high, 5 3/8" wide.
This safe made with or without inside door when ordered.

Approximate weight, 1100 pounds.

No. 16-E-83. No. 64 Fireproof Safe.....\$91.00

No. 16-E-84. No. 64 Fireproof Safe with inside door.....\$97.00



BELTING

Owing to our enormous business in this line, we carry a large and complete stock of Belting and Supplies, insuring our customers prompt shipment of their orders. We earnestly advise that you note carefully the general purpose for which we recommend the use of our various grades and order accordingly.

Rubber Belting

"Superior" Brand

3-E-20. This is the highest quality belt constructed; adapted for heavy duty on main drives in paper mills, sawmills, ore concentrating plants, factories, electric light plants and similar service where a belt is subjected to hard usage.

Width In.	4-ply Per ft.	5-ply Per ft.	6-ply Per ft.	Tensile Strength Unequaled
4	\$0.33	\$0.41		
5	.41	.51		
6	.49	.62	\$0.73	
7	.57	.77	.86	
8	.66	.86	.92	
9	.75	.96	1.04	
10	.82	1.15	1.15	
12		1.25	1.35	
13		1.34	1.44	
14	1.08	1.44	1.62	
15	1.15	1.54	1.85	
16	1.23	1.73	2.08	
18		1.92	2.30	
20		2.11		
22			2.76	
24				

Economical
—
**Will Give
First Class
Service**
—
**For Heavy
Work**

"Standard" Brand

3-E-1. This is a light weight flexible belt of high tensile strength, especially adapted to agricultural purposes on dairy machines, silo machines, pumps, and comparatively light transmission service, etc.

Width Inches	3-ply Per ft.	4-ply Per ft.	Smooth Uniform Surface
1	6c		
1 1/4	8c		
1 1/2	9c		
2	12c	14c	
2 1/2	14c	17c	
3	17c	20c	
3 1/2	20c	23c	
4	21c	25c	
4 1/2		28c	
5		31c	
6		37c	
8		46c	

**For Light
Work It
Can't Be
Beat**

"Premier" Brand

3-E-3. This is an all-around service belt of medium weight made to withstand general transmission service requirements, such as countershaft drives, flour mill drives, heavy agricultural work and conveying purposes.

Width Inches	4-ply Per ft.	5-ply Per ft.	6-ply Per ft.
3	\$0.23		
4 1/4	.30		
5	.37	\$0.46	
6	.44	.55	\$0.66
7	.51	.62	.70
8	.57	.70	.83
9	.62		
10	.70	.86	1.03
11	.76		
12	.83	1.03	1.24
13	.89	1.12	
14	.97	1.21	1.46
15	1.03	1.30	
16	1.11	1.39	
18	1.24		

Endless Canvas Belting



3-E-11. Brand new and guaranteed. These belts are especially recommended for threshers or for any other purpose where a belt is exposed to the weather. Actual lengths are three feet shorter than specified as it requires the price of three feet for lap and labor in making belts endless.

Width Inches	50 ft.	75 ft.	100 ft.	125 ft.	150 ft.
4	\$14.70	\$21.30	\$28.20		
5	17.10	24.90	33.00	\$40.80	
6	19.50	28.50	37.50	46.50	\$55.50
7	21.90	32.10	42.30	52.50	62.40
8					69.00
9					
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"XX" Special Brand Canvas Belting

3-E-9. This belt is the most serviceable for use outdoors, as it can not be injured by steam or water and can be run in places where the heat would injure a rubber or leather belt. It is made of heavy canvas woven very hard, giving it great strength. The rows of stitching are very close so that the plies will not separate. It is printed red with a special composition which makes it waterproof and it is not affected by heat or cold. This belt is thoroughly stretched during the process of manufacture and is adaptable for sawmills, mines, quarries, etc.

Width Inches	4-ply Per ft.	5-ply Per ft.	6-ply Per ft.
1	6c		
1 1/4	8c		
1 1/2	9c		
2	12c		
2 1/2	14c		
3	17c		
3 1/2	20c		
4	21c		
4 1/2		24c	
5		27c	
6		32c	39c
7		36c	41
8		41c	51c
9		45c	
10		49c	61c
12		62c	77c
14		69c	1.04

**Made of
Heavy
Canvas**
—
**Perfectly
Woven**

White Woven Cotton Belting

3-E-15. This white woven cotton belt is especially adapted for elevating and conveyor purposes. It is solid woven, making it the heaviest and strongest cotton belt on the market.

Width Inches	2-Ply	3-Ply	4-Ply	5-Ply	6-Ply
1	\$0.03 1/2	\$0.06			
1 1/4	.04	.07			
1 1/2	.04 1/2	.08	\$0.10		
2	.06	.09	.12		
2 1/4	.07	.11	.13		
3	.08	.12	.15		
3 1/2	.09	.13	.16	\$0.22	
4	.10	.14	.19	.25	
4 1/2	.12	.16	.22	.31	\$0.38
5	.13	.18	.26	.36	.45
6	.14	.21	.28		
6 1/2		.22	.35		.51
7		.26	.35	.49	.60
8	.20	.32	.42	.55	.68
9	.27	.37	.49	.62	.78
10	.31	.41	.56	.76	.93

Odd Belt Specials!

Lot No. 3-E-586

800 ft. New 4-in. 2-ply Rubber Belt, ft.	12c
650 ft. New 5-in. 2-ply Rubber Belt, ft.	15c
2000 ft. New 2-in. 3-ply White Cotton Belt, ft.	6c
500 ft. New 9-in. 4-ply Canvas Cotton Belt, ft.	33c
350 ft. Used 8-in. 4-ply Canvas Cotton Belt, ft.	20c
400 ft. Used 8-in. 5-ply Canvas Cotton Belt, ft.	25c
500 ft. New 10-in. 5-ply Balata Cotton Belt, ft.	86c

Leather Belting

"Reliable" Brand

3-E-7. Our "Reliable" Brand New Leather Belt is by far the best leather belt on the market, made of short lap, high grade stock from which the finest belt is made, cannot be beat for high speeds such as woodworking machinery and heavy drives. Made endless to order at a charge of two feet extra for labor and lap.

Width Inches	Single Per Ft.	Double Per Ft.	Width Inches	Single Per Ft.	Double Per Ft.
2	\$0.26		5 1/2	\$0.71	\$1.42
2 1/2	.32		6	.77	1.54
3	.39	\$0.78	7	.91	1.82
3 1/2	.45	.90	8	1.03	2.06
4	.52	1.04	9		2.33
4 1/2	.58	1.16	10		2.59
5	.65	1.30	12		3.11

"Square" Brand

3-E-6. "Square" Brand New Leather Belt is suitable for light and medium power transmission. It is cut from the same leather as our "Reliable" Brand and is manufactured in the same careful manner, but is of a lighter weight. For farm machinery, light factory power, etc., there is no better belt on market. Made endless to order at a charge of two feet extra for labor and lap.

Width Inches	Single Per Ft.	Double Per Ft.	Width Inches	Single Per Ft.	Double Per Ft.
1	\$0.11		3	\$0.32	\$0.64
1 1/4	.14		3 1/2	.38	.76
1 1/2	.16		4	.43	.86
1 3/4	.19		4 1/2	.49	.98
2	.22	\$0.44	5	.54	1.08
2 1/4	.24	.48	6	.65	1.30
2 1/2	.27	.54	7		1.51
2 3/4	.30	.60	8		1.73

Overhauled Leather Belting

3-E-5. We rebuild and overhaul leather belts and when ready for shipment, they will give the same satisfaction as new; with the exception that the stock of course is overhauled. Made endless to order at a charge of two feet extra for labor and lap.

Width Inches	Single Per Ft.	Double Per Ft.	Width Inches	Single Per Ft.	Double Per Ft.
1 1/4	\$0.07		7		\$1.01
1 1/2	.11	\$0.22	9		1.15
2	.14	.28	10		1.44
2 1/4	.16	.32	11		1.58
2 1/2	.18	.36	12		1.73
3	.22	.44	13		1.87
3 1/2	.25	.50	14		2.02
4	.29	.58	15		2.16
4 1/2	.32	.64	16		2.30
5	.36	.72	18		2.59
5 1/2	.40	.80	20		2.88
6	.43	.86	24		3.46

Belting Supplies, Packing, Elevator Buckets, Etc.

"Adams" Canvas Pulley Covering

Prevents belts slipping. Threshermen appreciate it; saves power and money. Can run with loose belt. Lessens friction on bearings and shaft. It is easily applied without rivets and is durable.

\$3⁷⁵



Put up in convenient outfits, consisting of Canvas Cement, Brush and Scraper for applying. **3-E-102.** Outfit No. 3. Sufficient for 10 sq. ft. of pulley surface. **\$3.75**

Perfection Belt Dressing



Prevents belt from slipping. Contains nothing that is injurious to the belt. Put up in 1 lb. sticks. **3-E-106.** Price per stick **\$0.35**
Per dozen 1-lb. sticks. **3.50**

Side Lace Leather

Raw Hide Lace Leather made from the strongest, toughest, native hides. We do not cut hides.



3-E-25.	Price
Sides contain 15 sq. ft.	\$7.50
Sides contain 16 sq. ft.	8.00
Sides contain 17 sq. ft.	8.50
Sides contain 18 sq. ft.	9.00

Cut Raw Hide Lace Leather



Made of the finest selected hides. Put up in bundles containing 50 and 100 feet. We guarantee that this is the toughest and best quality of cut lace leather on the market.

3-E-24.	Width, inches.	Price
	3/4	\$0.55
	1	\$0.65
	1 1/4	\$0.80
	1 1/2	\$1.15
	1 3/4	\$1.40
	2	2.65

"Handy Repair Bundle"



3-E-59. This handy bundle consists of one pound of mixed good strong rawhide lacing of various widths and lengths, practical for repairing harness, belts and other leather equipment about the farm and factory. Always the right lace or string when you need it. Price per one pound bundle complete. **50c**

Belt Elevator Bolts



These bolts are for attaching elevator buckets to flat belts and have slot in head for screw driver, and corrugated under surface. They are well made and smoothly finished. Sold in boxes of 100 only.

3-E-927.	Price per box of 100.
	\$0.85
	.90
	.95
	1.00
	1.05

Chain Elevator Bolts

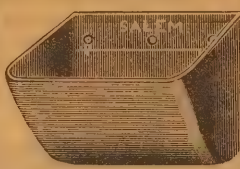


3-E-928. This type bolt is used for attaching elevator buckets to link chain belting. They have button head, are well made and smoothly finished. Sold in boxes of 100 only.

Dia. In.	Lgth. In.	Price
1/2	1 1/2	Box of 100. \$1.00
3/4	1 3/4	Box of 100. 1.10

Buckets, Etc.

Elevator Buckets



how you want them punched, whether for flat belt or link chain belting. If for link belt state style of attachment and number of chain.

Bucket Length	Size, Ins. Proj.	Canac. Cubic Inches	Gauge No.	Price Each
3	3	12	22	\$0.11
3 1/4	3	15	22	.11
4	3	17	22	.11
4 1/4	3	20	22	.11
4	3 1/4	24	22	.11
4 1/4	3 1/4	27	22	.11
5	3 1/4	30	22	.11
5 1/4	4	41	20	.14
6 1/4	4	45	20	.16
6	4	49	20	.19
7	4 1/4	66	20	.22
8	5	98	19	.26
9	5	110	19	.30
10	5	122	19	.35
10	5 1/4	156	19	.36
10	6	169	18	.38
11	6	187	18	.42
11	6	206	18	.47
12	6	225	18	.52

Overhauled Buckets

We offer the following overhauled elevator buckets at bargain prices subject to prior sale. These buckets are slightly shop worn but for further use as good as new.

Quantity	Bucket Size, Inches Length	Proj.	Each
80	2 1/4	2 1/4	\$0.05
110	3 1/4	3 1/4	.07
120	4	4	.07
800	4	3 1/4	.07
130	5	3 1/4	.08
450	5	4	.09
50	5 1/4	2 1/4	.10
75	7	3 1/4	.13
16	14	7	.30
85	16	7	.43
39	18	7	.45
200	20	6	.50

We carry a complete stock of elevator buckets and supplies. If you do not find what you require, write us.

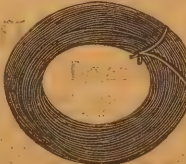
Steel Belt Punch



To drive. Made of solid tool steel, drilled and reamed.

3-E-27.	Size No.	Hole Inches	Price Each
	11	1/4	45c
	12	1/4	50c

Composition Wire Belt Lace



The strongest wire belt lace manufactured. Tensile strength being 2,000 lbs.; will stand a far greater strain than is estimated in the driving capacity of a belt. Is better than hooks. Put up in boxes of 50 feet.

3-E-32.	Price per Box
No. 1. For belts 6 inches wide and under	\$0.30
No. 2. For all double leather belts less than 8 inches and for all rubber belts 5 ply or heavier.	.35
No. 3. For double belts above 8 inches in width.	.40

Adjustable Lace Leather Cutters
Made especially for cutting Raw Hide Lace Leather. Cutters of finely tempered steel. **3-E-26.** Price each **50c**

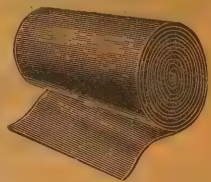
Spiral Graphite Packing

Spiral Graphite Packing. Made of the very best quality of stock, guaranteed to give satisfaction. Put up in boxes containing 12 feet, and in sizes from 1/4 inch up to and including 1/2 inch. **3-E-23.** Price per lb. (any size) **.65c**



Red Sheet Packing

Our red sheet packing is manufactured of a compound soft enough to fill every crevice of the flange. It does not soften or blow out. It is recommended for all steam pressures up to 150 pounds saturated steam, and for all hydraulic pressures. Just the thing for making gaskets, etc. Put up in rolls 36 in. wide. We do not cut rolls lengthwise, but will furnish any quantity one yard wide and any length desired. 1/2 inch weighs approximately 5 1/2 pounds to sq. yd. and 1/4 inch—11 pounds. Sizes, in stock, 1/4 and 1/2 inch.



3-E-15. Price, per lb. **32c**

Alligator Steel Belt Lacing



Just a hammer to apply it. Packed in boxes, complete with pins.

3-E-16. For light narrow single leather or fabric belts 1/4 to 1/2 inch thick. Packed in 8-inch lengths containing sufficient for 64 inches in width of belting. Per box **\$1.30**

3-E-20. For single leather belts, three ply fabric, etc., up to 1/2 inch thick. Packed in 12-inch lengths, containing sufficient for 60 inches in width of belting. Per box **\$1.30**

3-E-25. For single leather and fabric belts from 1/4 inch to 1/2 inch thick. Packed in 8-inch lengths containing sufficient for 48 inches in width of belting. Per box **\$1.25**

3-E-35. For double leather, 5 ply rubber, cotton or balata belts 1/4 to 1/2 inch thick. Packed in 8-inch lengths containing sufficient for 32 inches in width of belting. Per box **\$1.15**

3-E-45. For heavy double leather and 6 ply belts up to 1/2 inch thick. Packed in 12 inch lengths containing sufficient for 48 inches in width of belting. Per box **\$2.25**

Giant Belt Hooks



For leather, rubber and cotton belts. Have double the strength of any other wire belt hooks that are made. Make perfect joints. No tool required but a hammer to insert them. Put up in boxes containing 250.

Size A.	Approximate length, 1/2 inch. Single length belts. Price per box.	65c
Size B.	Approximate length, 1 inch. For heavy single and light double leather belts. Price per box.	75c
Size C.	Approximate length, 1 1/4 inches. For heavy double length belts. Price per box.	90c
Size D.	Approximate length, 1 1/2 inches. 3 and 4-ply rubber or cotton belt. Price per box.	95c
Size E.	Approximate length, 1 3/4 inches. 5 and 6-ply rubber or cotton belt. Price per box.	\$1.10

Steel Belt Lacing



Made of special steel, easily applied, making a smooth joint. The teeth are widely spaced and therefore do not cut the belt. Packed in boxes containing 100 inches in assorted lengths. In ordering hooks be sure and state kind and thickness of belt with which they are to be used.

3-E-A1. For single leather, rubber and canvas belts, up to 4-ply not wider than 6 inches. Price per box **75c**
3-E-B1. For single leather, rubber, and canvas belts, 4-ply, 6 to 10 inches wide. Price per box **90c**
3-E-2. For double leather, rubber, and canvas belts, up to 6-ply, 12 inches and wider. Price per box **\$1.20**

Pointed Belt Awl-Perforator



A handy tool for perforating belts. We recommend the pointed belt awl for preparing belts to be spliced with lace leather, wire, etc., will not cut threads of fabric, but simply separate them. Can be used for many other things.

3-E-28. Price, each **60c**

Shafting and Shaft Line Supplies

Recent great purchases of complete plants and factories secured thousands of feet of perfect shafting absolutely straight and as good as new for further service. This shafting is guaranteed to be free from all defects.

No matter what your requirements are in Pulleys, Shafting, Hangers, Belting, etc., we can supply anything you need for power and transmission of every description. Give us a general idea of the conditions you will have to meet—let us solve your problem; let us save time and money for you.

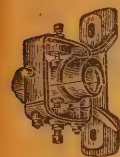
Brand new Cold Rolled Steel Shafting at factory prices. Cut to any length up to 24 feet. Where longer shafts are required, it is necessary that two pieces be used together with coupling.

We also have a large stock of second-hand shafting, 1 1/8 inch and larger in diameter, which we quote subject to stock being on hand at time of receiving order.

When we are out of second-hand shafting, we will substitute new Shafting at prices quoted on new, unless we are advised to the contrary.

16-E-1. Brand New.

Size, Inches	Shafting						16-E-3. Second-Hand
	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	
Weight, per ft., Lbs.	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	1 1/8
Second-Hand, per ft.							10
Brand New, per ft.	\$0.08	\$0.13	\$0.19	\$0.21	\$0.27	\$0.29	\$0.33
Size, Inches	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4
Weight, per ft., Lbs.	12 3/4	16	19 1/4	23	27 1/4	31 1/2	36 1/2
Second-Hand, per ft.	\$0.38	\$0.53	\$0.64	\$0.77	\$0.90	\$1.04	\$1.27
Brand New, per ft.	.70	.83	1.01	1.21	1.48	1.70	2.06

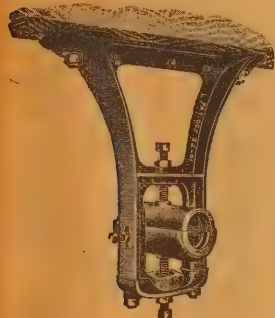


Adjustable Post Hangers

Brand new adjustable Ball and Socket Drop Brace Post Hangers, with plain wick oiling bearings up to 2 1/8, 3 1/8 to 3 1/2 Ring Oiling Bearings.

16-E-7. Made with adjusting socket connection with plunger screws, true ball and bearing and ample adjustment.

Size, inch.	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
Price, each.	\$2.55	\$2.55	\$3.40	\$3.40	\$3.60	\$3.60	\$4.45	\$5.10
Size, inch.	2 1/8	2 3/8	2 1/2	2 3/4	3 1/8	3 1/4	3 1/2	3 3/4
Price, each.	\$7.00	\$7.85	\$10.65	\$12.30	\$17.00	\$18.70	\$26.80	\$28.50



Brand New Drop Hangers.

Double Brace, Adjustable, Ball and Socket, Wick Oiling, Drop Hangers, Standard Bearings.

16-E-9. Our hangers are the equal of any hangers on the market. They are as good as the best material and finest workmanship can make them. We use only the very best grade of babbitt applicable to shafting service, which is securely anchored to the castings and machined up by special process.

Shaft Inches	Drop in Inches							
	8	10	12	14	16	18	20	24
1 1/8	\$2.05	\$2.25	\$2.45	\$2.80				
1 1/4	2.05	2.25	2.45	2.80	\$3.20	\$3.55		
1 1/2	2.25	2.45	2.65	3.00	3.20	3.55		
1 3/4	2.25	2.45	2.65	3.00	3.20	3.55		
2	2.45	2.65	2.80	3.20	3.40	3.75		
2 1/8	2.45	2.65	2.80	3.20	3.40	3.75		
2 1/4	3.40	3.55	3.75	4.15	4.30	4.50	\$4.90	
2 1/2	3.95	4.15	4.30	4.70	4.90	5.05	5.45	

Write for prices on larger sizes. We can also furnish both ring and plain wick oiling drop and post hangers. Write for prices.

Overhauled Drop Hangers

16-E-11. We offer second-hand Drop Hangers, subject to stock on hand at time order is received. Should we not have second-hand hangers in the sizes desired we will substitute new hangers, at prices quoted, unless otherwise advised. The boxes of our second-hand Drop Hangers are babbitted and are guaranteed to be in first class condition. When necessary we rebabbitt them, good as new.


Size, Shaft Inches	Drop in Inches									
	8	10	12	14	16	18	20	24	30	36
1 1/8	\$1.55	\$1.65	\$1.80	\$2.05	\$2.10	\$2.30	\$2.40	\$2.65		
1 1/4	2.05	2.05	2.30	2.45	2.55	2.65	2.75	2.95	\$4.50	\$5.30
1 1/2	2.30	2.40	2.60	2.80	2.85	2.95	3.05	3.20	4.75	5.50
1 3/4	3.00	3.10	3.15	3.45	3.50	3.70	3.75	4.10	5.40	6.50
2	3.35	3.45	3.50	3.80	3.90	4.10	4.15	4.40	5.80	6.85
2 1/8	4.25	4.20	4.35	5.05	5.15	5.80	5.85	6.30	7.95	9.00
2 1/4	4.90	4.95	5.40	5.80	5.90	6.50	6.60	7.05	8.70	9.70
2 1/2	7.05	7.15	7.40	8.10	8.25	9.00	9.70	9.95	11.00	12.10
2 3/4	7.75	7.95	8.10	8.85	8.95	9.70	10.10	10.30	11.80	12.85
3	9.20	9.40	9.60	10.30	10.40	11.40	11.55	12.10	13.55	14.60
3 1/8	9.95	10.10	10.30	11.00	11.20	12.10	12.25	12.85	14.30	15.35

Brand New Rigid Post Blocks

16-E-15. Standard bearing, lubricated through cup cast in cap. Babbitted with the best grade of babbitt for shaft service. Sizes given are the diameter of shaft. Strength of design is a feature.

Inch	Each	Inch	Each	Inch	Each	Inch	Each
1 1/8	\$1.05	1 1/4	\$1.65	2 1/8	\$4.60	3 1/8	\$8.05
1 1/4	1.20	1 1/2	1.75	2 1/4	5.25	3 1/4	10.90
1 1/2	1.40	1 3/4	2.10	2 3/4	6.40	3 3/4	13.80
1 3/4	1.45	2	2.60	2 3/2	7.60	3 3/2	16.65

Brand New Safety Set Collars for Shafting

	16-E-17.							
Inch.....	$\frac{3}{4}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{15}{16}$
Each.....	22c	23c	28c	30c	35c	37c	42c	49c
Inch.....	$2\frac{1}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$3\frac{1}{8}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$3\frac{7}{8}$
Each.....	56c	63c	74c	84c	95c	1.05	1.16	1.26

Overhauled CAST IRON PULLEYS *Brand New*

16-E-35. We have an enormous stock of overhauled or second hand Iron Pulleys in first class condition, perfectly balanced and for further service practically as good as new. As our stock constantly changes and while we offer a line of sizes, we can not guarantee to furnish second hand pulleys in every instance, so you who are out of second hand pulleys as ordered we will take the liberty of substituting new Iron Pulleys at new prices, unless advised to the contrary. Overhauled Iron Pulleys are fitted with set screws only or key seat only and when both are required, we will do this work, making small extra charge.

16-E-31. Brand new iron pulleys, made of the very best of gray iron machine moulded and guaranteed to be perfectly balanced. Single belt pulleys are made to transmit power of a single leather belt or a 4-ply fabric belt. Double belt pulleys should be used where a double leather belt or a 6-ply or 6-ply fabric belt is used for heavy transmission of power. We furnish pulleys bored to fit any size shaft and fitted with either set screws or key seated without extra charge. If both key seat and set screws are wanted we require an additional small charge. These pulleys have to be made, which takes about 4 days.

In.	Face In.	Single Belt	Double Belt	Dia. In.	Face In.	Single Belt	Double Belt
3	3	1.70	\$1.55	20	14	\$3.70	\$9.75
4	4	1.90	2.20	22	16	4.25	
4	4	2.10	2.20	24	18	4.75	5.40
4	4	2.30	2.20	26	20		6.65
5	5	1.85	2.20	28	22	5.25	8.00
5	5	2.00	2.20	30	24	5.75	9.35
5	5	2.20	2.45	32	26		10.80
5	5	2.45	2.45	34	28	6.40	
6	6	\$1.10	1.25	36	30	7.00	6.00
6	6	1.25	1.45	38	32		7.45
6	6	1.45	1.60	40	34	7.60	8.90
6	6	1.60	1.80	42	36		10.45
6	6	1.80	2.00	44	38	8.15	12.00
7	7	1.20	1.40	46	40	8.65	
7	7	1.40	1.60	48	42	9.15	10.90
7	7	1.60	1.80	50	44	9.65	12.75
7	7	1.80	2.00	52	46	10.15	14.60
7	7	2.00	2.20	54	48	10.65	
7	7	2.20	2.45	56	50	11.15	13.30
8	8	1.35	1.55	58	52	11.65	
8	8	1.50	1.70	60	54	12.15	10.90
8	8	1.70	1.90	62	56	12.65	12.75
8	8	1.90	2.10	64	58	13.15	14.60
8	8	2.10	2.30	66	60	13.65	
8	8	2.30	2.50	68	62	14.15	13.30
8	8	2.50	2.70	70	64	14.65	15.15
8	8	2.70	2.90	72	66	15.15	16.95
8	8	2.90	3.10	74	68	15.65	
8	8	3.10	3.30	76	70	16.15	15.95
8	8	3.30	3.50	78	72	16.65	
9	9	1.45	1.65	80	74	17.15	14.60
9	9	1.65	1.85	82	76	17.65	16.45
9	9	1.85	2.05	84	78	18.15	18.25
9	9	2.05	2.25	86	80	18.65	
9	9	2.25	2.45	88	82	19.15	17.00
9	9	2.45	2.65	90	84	19.65	18.80
9	9	2.65	2.85	92	86	20.15	
9	9	2.85	3.05	94	88	20.65	17.55
9	9	3.05	3.25	96	90	21.15	19.35
10	10	1.55	1.75	98	92	21.65	
10	10	1.75	1.95	100	94	22.15	18.10
10	10	1.95	2.15	102	96	22.65	20.00
10	10	2.15	2.35	104	98	23.15	
10	10	2.35	2.55	106	100	23.65	18.85
10	10	2.55	2.75	108	102	24.15	20.70
10	10	2.75	2.95	110	104	24.65	
10	10	2.95	3.15	112	106	25.15	19.55
10	10	3.15	3.35	114	108	25.65	21.40
10	10	3.35	3.55	116	110	26.15	
10	10	3.55	3.75	118	112	26.65	20.25
10	10	3.75	3.95	120	114	27.15	22.10
10	10	3.95	4.15	122	116	27.65	
10	10	4.15	4.35	124	118	28.15	21.00
10	10	4.35	4.55	126	120	28.65	22.90
10	10	4.55	4.75	128	122	29.15	
10	10	4.75	4.95	130	124	29.65	21.75
10	10	4.95	5.15	132	126	30.15	23.65
10	10	5.15	5.35	134	128	30.65	
10	10	5.35	5.55	136	130	31.15	22.55
10	10	5.55	5.75	138	132	31.65	
10	10	5.75	5.95	140	134	32.15	21.40
10	10	5.95	6.15	142	136	32.65	23.30
10	10	6.15	6.35	144	138	33.15	
10	10	6.35	6.55	146	140	33.65	22.15
10	10	6.55	6.75	148	142	34.15	24.05
10	10	6.75	6.95	150	144	34.65	
10	10	6.95	7.15	152	146	35.15	22.95
10	10	7.15	7.35	154	148	35.65	
10	10	7.35	7.55	156	150	36.15	21.80
10	10	7.55	7.75	158	152	36.65	23.70
10	10	7.75	7.95	160	154	37.15	
10	10	7.95	8.15	162	156	37.65	22.60
10	10	8.15	8.35	164	158	38.15	
10	10	8.35	8.55	166	160	38.65	21.45
10	10	8.55	8.75	168	162	39.15	23.35
10	10	8.75	8.95	170	164	39.65	
10	10	8.95	9.15	172	166	40.15	22.20
10	10	9.15	9.35	174	168	40.65	
10	10	9.35	9.55	176	170	41.15	21.10
10	10	9.55	9.75	178	172	41.65	23.00
10	10	9.75	9.95	180	174	42.15	
10	10	9.95	10.15	182	176	42.65	21.95
10	10	10.15	10.35	184	178	43.15	
10	10	10.35	10.55	186	180	43.65	20.80
10	10	10.55	10.75	188	182	44.15	22.70
10	10	10.75	10.95	190	184	44.65	
10	10	10.95	11.15	192	186	45.15	21.60
10	10	11.15	11.35	194	188	45.65	
10	10	11.35	11.55	196	190	46.15	20.50
10	10	11.55	11.75	198	192	46.65	22.40
10	10	11.75	11.95	200	194	47.15	
10	10	11.95	12.15	202	196	47.65	21.30
10	10	12.15	12.35	204	198	48.15	
10	10	12.35	12.55	206	200	48.65	20.20
10	10	12.55	12.75	208	202	49.15	22.10
10	10	12.75	12.95	210	204	49.65	
10	10	12.95	13.15	212	206	50.15	21.05
10	10	13.15	13.35	214	208	50.65	
10	10	13.35	13.55	216	210	51.15	20.00
10	10	13.55	13.75	218	212	51.65	21.90
10	10	13.75	13.95	220	214	52.15	
10	10	13.95	14.15	222	216	52.65	20.85
10	10	14.15	14.35	224	218	53.15	
10	10	14.35	14.55	226	220	53.65	19.75
10	10	14.55	14.75	228	222	54.15	21.65
10	10	14.75	14.95	230	224	54.65	
10	10	14.95	15.15	232	226	55.15	20.60
10	10	15.15	15.35	234	228	55.65	22.50
10	10	15.35	15.55	236	230	56.15	
10	10	15.55	15.75	238	232	56.65	21.45
10	10	15.75	15.95	240	234	57.15	
10	10	15.95	16.15	242	236	57.65	20.35
10	10	16.15	16.35	244	238	58.15	22.25
10	10	16.35	16.55	246	240	58.65	
10	10	16.55	16.75	248	242	59.15	21.20
10	10	16.75	16.95	250	244	59.65	23.10
10	10	16.95	17.15	252	246	60.15	
10	10	17.15	17.35	254	248	60.65	22.05
10	10	17.35	17.55	256	250	61.15	
10	10	17.55	17.75	258	252	61.65	20.95
10	10	17.75	17.95	260	254	62.15	22.85
10	10	17.95	18.15	262	256	62.65	
10	10	18.15	18.35	264	258	63.15	21.80
10	10	18.35	18.55	266	260	63.65	
10	10	18.55	18.75	268	262	64.15	20.70
10	10	18.75	18.95	270	264	64.65	22.60
10	10	18.95	19.15	272	266	65.15	
10	10	19.15	19.35	274	268	65.65	21.55
10	10	19.35	19.55	276	270	66.15	
10	10	19.55	19.75	278	272	66.65	20.45
10	10	19.75	19.95	280	274	67.15	22.35
10	10	19.95	20.15	282	276	67.65	
10	10	20.15	20.35	284	278	68.15	21.30
10	10	20.35	20.55	286	280	68.65	
10	10	20.55	20.75	288	282	69.15	20.20
10	10	20.75	20.95	290	284	69.65	22.10
10	10	20.95	21.15	292	286	70.15	
10	10	21.15	21.35	294	288	70.65	21.05
10	10	21.35	21.55	296	290	71.15	
10	10	21.55	21.75	298	292	71.65	20.00
10	10	21.75	21.95	300	294	72.15	21.90
10	10	21.95	22.15	302	296	72.65	
10	10	22.15	22.35	304	298	73.15	20.85
10	10	22.35	22.55	306	300	73.65	
10	10	22.55	22.75	308	302	74.15	19.75
10	10	22.75	22.95	310	304	74.65	21.65
10	10	22.95	23.15	312	306	75.15	
10	10	23.15	23.35	314	308	75.65	20.60
10	10	23.35	23.55	316	310	76.15	22.50
10	10	23.55	23.75	318	312	76.65	
10	10	23.75	23.95	320	314	77.15	21.45
10	10	23.95	24.15	322	316	77.65	
10	10	24.15	24.35	324	318	78.15	20.35
10	10	24.35	24.55	326	320	78.65	22.25
10	10	24.55	24.75	328	322	79.15	
10	10	24.75	24.95	330	324	79.65	21.20
10	10	24.95	25.15	332	326	80.15	
10	10	25.15	25.35	334	328	80.65	20.10
10	10	25.35	25.55	336	330	81.15	22.00
10	10	25.55	25.75	338	332	81.65	
10	10	25.75	25.95	340	334	82.15	20.95
10	10	25.95	26.15	342	336	82.65	
10	10	26.15	26.35	344	338	83.15	19.85
10	10	26.35	26.55	346	340	83.65	
10	10	26.55	26.75	348	342	84.15	18.75
10	10	26.75	26.95	350	344	84.65	20.65
10	10	26.95	27.15	352	346	85.15	
10	10	27.15	27.35	354	348	85.65	19.60
10	10	27.35	27.55	356	350	86.15	
10	10	27.55	27.75	358	352	86.65	18.50
10	10	27.75	27.95	360	354	87.15	20

Malleable Link Chain Belting



16-E-309. Brand new, for use on Mowers, Reapers, Binders, Corn and Wheat Drill, Corn Shellers, Straw Stackers, Feed Cutters, Saw Dust Conveyors, etc.

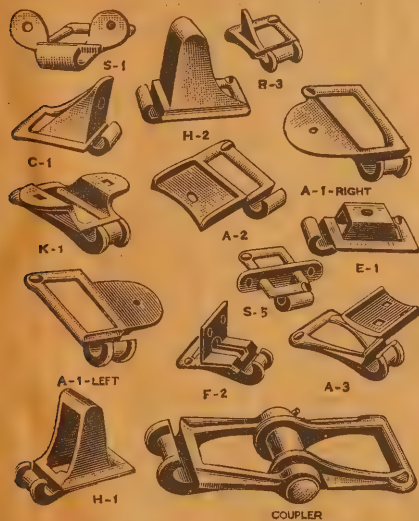
When ordering chain be sure and give number. If the chain is so worn that number is effaced, it is advisable to send a sample link.

No.	Links ft.	Working Strain	Approximate Leather Belting in. Single	Price per ft.
25	13.8	75 lbs.	1 in.	12c
32	10.4	150 lbs.	1 1/2 in.	13c
33	8.6	200 lbs.	2 in.	12c
34	8.6	225 lbs.	2 1/2 in.	14c
35	7.4	250 lbs.	2 1/2 in.	14c
42	8.8	300 lbs.	3 in.	15c
45	7.4	350 lbs.	3 1/2 in.	13c
51	10.4	375 lbs.	3 1/2 in.	18c
52	8.0	400 lbs.	4 in.	18c
55	7.4	450 lbs.	4 in.	16c
57	5.2	600 lbs.	6 in.	19c
62	7.3	650 lbs.	6 1/2 in.	22c
67	5.2	700 lbs.	7 in.	23c
77	5.2	750 lbs.	7 1/2 in.	26c

Attachment Links for Chain Belting

Made of Malleable

16-E-23. Attachment Links are made to fit the sizes of chains as listed below, and must not be ordered, except to match the size we state they will fit. For example, it will be noticed that the H2 attachment is only made for No. 25 chain, and must not therefore be ordered to be used on any other size.



Chain No. 25 takes A1-C1-H2-K1
Chain No. 32 takes A1-C1-E1-K1
Chain No. 33 takes A1-E1-K1-S1
Chain No. 34 takes A1-C1-E1-K1
Chain No. 35 takes A1-C1-E1-K1-S1
Chain No. 42 takes A1-C1-K1-S1
Chain No. 45 takes A1-A2-C1-E1-F2-K1-S1
Chain No. 52 takes A1-A3-F2-K1
Chain No. 55 takes A1-C1-E1-F2-K1-S1-S5
Chain No. 57 takes A1-F2-K1
Chain No. 62 takes A1-C1-K1-S5-S1
Chain No. 67 takes A1-E1-F2-K1
Chain No. 77 takes A1-E1-F2-H1-K1-R3

Attachments for Nos. 25 and 32 Chain. Each. 5c
Couplers for Nos. 25 and 32 Chain. Per Pair. 13c
Attachments for Nos. 33, 34 and 42 Chain. Each. 6c
Couplers for Nos. 33, 34 and 42 Chain. Per Pair. 15c
Attachments for Nos. 35, 45, 52, 55 and 62 Chain. Ea. 7c
Couplers for Nos. 35, 45 and 55 Chain. Per Pair. 16c
Couplers for Nos. 51, 52 and 57 Chain. Per Pair. 19c
Attachments for Nos. 57, 67 and 77 Chain. Each. 11c
Couplers for Nos. 62, 67 and 77 Chain. Per Pair. 26c

The Chain Couplers are a most useful device to place and connect link belting around the sprocket and have it without slack, and is equally desirable in taking it off the sprocket.

When ordering attachments A-1, A-2, A-3 or R-3, advise whether you want Right or Left Hand style.

Brand New Sprocket Wheels



16-E-805. Used in connection with Link Belting. We will furnish these bored to fit any size shaft not exceeding the size described, in connection with each number. In ordering be sure and state size of shaft and whether the sprockets are to be key-seated or set screws or both. Unless otherwise specified they will be furnished with set screws.

NO. 25—BORE 1 7/16 INCH AND LESS				NO. 32—BORE 1 7/16 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each		Pitch Dia. In.	Teeth	Price Each	
2 1/4	7	\$1.30		8	22	\$2.70	
2 1/2	8	1.35		8 1/2	24	2.90	
2 3/4	9	1.40		10	27	3.25	
3	10	1.45		11 1/4	32	3.80	
3 1/4	12	1.50		13 1/4	36	4.05	
3 1/2	14	1.55		14 1/2	38	4.55	
4	17	1.70		16	42	4.80	
4 1/2	19	1.85		18 1/2	44	5.70	
5	24	2.25					

NOS. 33 AND 34—BORE 1 7/16 INCH AND LESS				NOS. 35, 45, 55—BORE 1 15/16 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each		Pitch Dia. In.	Teeth	Price Each	
2 1/4	6	\$1.50		17	33	\$6.40	
3 1/4	8	1.55		18	35	6.80	
4 1/4	10	1.70		20 1/4	39	7.60	
5 1/4	11	1.80		22 1/4	42	8.25	
6 1/4	12	1.85		24 1/4	44	8.60	
7 1/4	13	1.90		26 1/4	46	9.05	
8 1/4	14	2.00		28 1/4	48	9.45	
9 1/4	15	2.05		30 1/4	50	9.90	
10 1/4	16	2.10		32 1/4	52	10.35	
11 1/4	17	2.15		34 1/4	54	10.85	
12 1/4	18	2.20		36 1/4	56	11.30	
13 1/4	19	2.25		38 1/4	58	11.75	
14 1/4	20	2.30		40 1/4	60	12.30	
				42 1/4	62	12.85	

NO. 42—BORE 1 11/16 INCH AND LESS				NO. 52—BORE 1 15/16 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each		Pitch Dia. In.	Teeth	Price Each	
2 1/2	5	\$1.55		15 1/2	32	\$6.00	
3 1/2	6	1.65		17 1/2	36	6.75	
4 1/2	7	1.75		19 1/2	40	7.50	
5 1/2	8	1.85		21 1/2	44	8.25	
6 1/2	9	1.95		23 1/2	48	9.00	
7 1/2	10	2.05		25 1/2	52	9.75	
8 1/2	11	2.15		27 1/2	56	10.50	
9 1/2	12	2.25		29 1/2	60	11.25	
10 1/2	13	2.35		31 1/2	64	12.00	
11 1/2	14	2.45					

NO. 52—BORE 1 15/16 INCH AND LESS				NOS. 57, 67, 77—BORE 2 7/16 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each		Pitch Dia. In.	Teeth	Price Each	
2 3/4	6	\$1.60		19 3/4	27	\$8.25	
3 3/4	7	1.65		22	30	9.15	
4 3/4	8	1.70		23 3/4	32	9.75	
5 3/4	9	1.75		25 3/4	34	10.50	
6 3/4	10	1.80		27 3/4	36	11.25	
7 3/4	11	1.85		29 3/4	38	12.00	
8 3/4	12	1.90		31 3/4	40	12.75	
9 3/4	13	1.95					

NO. 62—BORE 2 7/17 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each	
3 1/4	7	\$1.75	
4 1/4	8	1.80	
5 1/4	9	1.85	
6 1/4	10	1.90	
7 1/4	11	1.95	
8 1/4	12	2.00	
9 1/4	13	2.05	
10 1/4	14	2.10	
11 1/4	15	2.15	
12 1/4	16	2.20	
13 1/4	17	2.25	
14 1/4	18	2.30	
15 1/4	19	2.35	
16 1/4	20	2.40	
17 1/4	21	2.45	

NO. 62—BORE 2 7/17 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each	
3 1/4	7	\$1.75	
4 1/4	8	1.80	
5 1/4	9	1.85	
6 1/4	10	1.90	
7 1/4	11	1.95	
8 1/4	12	2.00	
9 1/4	13	2.05	
10 1/4	14	2.10	
11 1/4	15	2.15	
12 1/4	16	2.20	
13 1/4	17	2.25	
14 1/4	18	2.30	
15 1/4	19	2.35	
16 1/4	20	2.40	
17 1/4	21	2.45	

NO. 62—BORE 2 7/17 INCH AND LESS			
Pitch Dia. In.	Teeth	Price Each	
3 1/4	7	\$1.75	
4 1/4	8	1.80	
5 1/4	9	1.85	
6 1/4	10	1.90	
7 1/4	11	1.95	
8 1/4	12	2.00	
9 1/4	13	2.05	
10 1/4	14	2.10	
11 1/4	15	2.15	
12 1/4	16	2.20	
13 1/4	17	2.25	
14 1/4	18	2.30	
15 1/4	19	2.35	
16 1/4	20	2.40	
17 1/4	21	2.45	

Write for prices on No. 51 Sprocket Wheels and sizes not listed.

New Rubber Belt Remnants

A partial list of our big stocks of brand new belt remnants. If you don't find the belt you need listed, write us. The chances are we have it.

Order by Lot No. 3-E-27.

Length Feet	Width Inches	Ply	Price Each	Length Feet	Width Inches	Ply	Price Each
15	1	3	\$0.83	18	6	4	\$5.94
18	1	3	.99	21	6	4	6.93
21	1	3	1.40	24	6	4	7.26
24	1	3	1.75	27	6	4	7.92
27	1	3	1.84	30	6	4	8.58
30	1	3	1.76	33	6	4	9.24
33	1	3	1.47	36	6	4	10.56
36	1	3	1.68	39	6	5	11.50
39	1	3	1.89	42	6	5	13.80
42	1	3	2.31	45	6	5	16.15
45	1	3	2.94	48	6	5	17.48
48	1	3	1.88	51	6	5	19.32
51	1	3	2.25	54	6	6	15.95
54	1	3	1.50	57	6	6	19.25
57	1	3	1.75	60	6	6	5.89
60	1	3	2.00	63	6	7	9.30
63	1	3	2.25	66	6	7	5.04
66	1	3	2.25	69	6	7	5.40
69	1	3	2.70	72	6	8	23.32
72	1	3	2.70	75	6	8	9.02
75	1	3	3.30	78	6	8	12.30
81	1	3	3.75	81	6	8	15.75
84	1	3	4.20	84	6	8	17.10
87	1	3	4.20	87	6	8	18.90
90	1	3	3.30	90	6	8	21.60
93	1	3	3.60	93	6	8	22.50
96	1	3	3.75	96	6	8	18.56
99	1	3	4.20	99	6	8	26.10
102	1	3	4.80	102	6	8	24.50
105	1	3	3.24	105	6	8	30.16
108	1	3	3.96	108	6	8	27.60
111	1	3	4.32	111	6	8	33.12
114	1	3	4.50	114	6	8	35.88
117	1	3	4.50	117	6	8	37.50
120	1	3	3.24	120	6	8	26.40
123	1	3	3.96	123	6	8	41.28
126	1	3	4.32	126	6	8	42.14
129	1	3	4.50	129	6	8	44.72
132	1	3	4.50	132	6	8	47.30
135	1	3	3.96	135	6	8	47.50
138	1	3	4.32	138	6	8	52.25
141	1	3	4.32	141	6	8	57.00
144	1	3	4.32	144	6	8	61.10
147	1	3	4.32	147	6	8	31.00
150	1	3	4.32	150	6	8	48.98
153	1	3	5.00	153	6	8	49.92
156	1	3	5.00	156	6	8	52.00
159	1	3	5.00	159	6	8	55.00
162	1	3	6.25	162	6	8	62.40
165	1	3	7.00	165	6	8	64.48
168	1	3	4.14	168	6	8	30.36
171	1	3	4.60	171	6	8	56.35
174	1	3	4.60	174	6	8	62.10
177	1	3	5.32	177	6	8	66.70
180	1	3	5.60	180	6	8	69.00
183	1	3	6.16	183	6	8	30.94
186	1	3	6.72	186	6	8	30.90
189	1	3	7.28	189	6	8	37.00
192	1	3	7.84	192	6	8	49.20
195	1	3	8.40	195	6	8	82.68

New Canvas Belt Remnants

Lot No. 3-E-37.

Length Feet	Width Inches	Ply	Price Each	Length Feet	Width Inches	Ply	Price Each
15	2	4	\$1.35	35	6	4	\$8.05
18	2	4	1.62	38	6	4	8.74
21	2	4	1.89	42	6	4	9.66
22	2	4	1.98	48	6	4	11.04
27	2	4	2.25	52	6	4	11.96
30	2	4	2.52	55	6	4	12.88
33	2	4	2.70	58	6	4	13.34
36	2	4	1.98	17	7	4	4.08
22	2 1/4	4	2.42	18	7	4	4.32
25	2 1/4	4	2.70	15	8	4	4.05
25	3	4	2.15	18	8	4	4.32
18	3 1/4	4	2.52	18	8	4	4.86
20	3 1/4	4	2.80	19	8	4	5.13
22	3 1/4	4	3.08	20	8	4	5.40
24	3 1/4	4	3.36	38	8	4	10.26
28	3 1/4	4	3.92	43	8	5	4.42
32	3 1/4	4	4.48	14	8	5	4.76
21	4	4	3.57	15	8	6	6.15
24	4	4	4.08	17	8	6	6.97
24	4	5	5.78	18	8	6	6.80
15	5	4	3.15	23	8	6	9.43
16	5	4	3.36	43	8	6	17.63
22	5	4	4.62	45	9	4	13.50
25	5	4	5.25	50	9	4	15.00
28	5	4	5.88	54	9	4	16.00
33	5	4	6.93	14	10	6	6.86
40	5	4	8.40	21	10	6	10.29
45	5	4	9.45	32	10	6	15.68
50	5	4	10.29	32	10	6	13.80
52	5	4	10.92	32	12	4	14.72
19	6	4	4.37	34	12	4	15.64
22	6	4	5.06	27	12	6	16.74
24	6	4	5.75	28	12	6	17.36
25	6	4	6.90	31	12	8	22.96
30	6	4		31	12	8	25.42

Hose for All Purpose Use!



**Will
Not
Kink**

Molded Braided Garden Hose

The most popular, durable rubber garden hose on the market is the molded constructed. It will not kink like the ordinary wrapped hose as it is molded under high pressure both external and internal. No seams in either the duck or rubber and will stand the highest water pressure. All high grade Brand New Stock, guaranteed to satisfy.

Lot No. **3-E-33**. Size, $\frac{5}{8}$ -inch inside single braid non-kinking, black corrugated molded hose, furnished with standard $\frac{3}{4}$ -inch brass couplings, attached each end.

25-Foot Lengths, with couplings attached \$3.20
50-Foot Lengths, with couplings attached 6.20

Cut in any lengths, per foot 12c
Couplings attached, extra per set 25c

Lot No. **3-E-34**. Size, $\frac{3}{4}$ -inch inside, single braid, non-kinking, black corrugated molded hose, furnished with standard $\frac{3}{4}$ -inch brass couplings.

25-Foot Lengths, with couplings attached \$3.55
50-Foot Lengths, with couplings attached 6.95

Cut in any lengths, per foot 13 $\frac{1}{2}$ c
Couplings attached, extra per set 25c

Lot No. **3-E-35**. Size, $\frac{3}{4}$ -inch inside, double braid, non-kinking, red corrugated molded hose, furnished with standard $\frac{3}{4}$ -inch brass couplings attached each end.

25-Foot Lengths, with couplings attached \$3.95
50-Foot Lengths, with couplings attached 7.70

Cut in any lengths, per foot 15c
Couplings attached, extra per set 25c

Hose Nozzle

3-E-55. "Gem" pattern will throw a solid stream or spray. Size for $\frac{3}{4}$ " hose coupling. Price, each..... **65c**



Hose Reels

3-E-47. The use of a reel is recommended, as it drains the hose when winding in; also prevents the unnecessary wear. Be sure and order a reel with your hose.

Are oil finished, hardwood frame, iron wheels, capacity, 100 feet of $\frac{3}{4}$ -inch hose. Price..... **\$1.90**



High Grade Steam Hose

3-E-40. This is an extra high grade hose, the inner tube of which is specially compounded to resist the action of heat. Walls are made of heavy duck and guaranteed fully in every particular. Furnished in multiples of 5 ft. only up to 50 ft.

Inside Diameter Inches	4-Ply for 35 lbs. steam or less per ft.	5-Ply for 50 lbs. steam or less per ft.	6-Ply for 75 lbs. steam or less per ft.
$\frac{3}{8}$	35c	55c	65c
$\frac{1}{2}$	45c	68c	80c
$\frac{3}{4}$	66c	80c	97c

Water Hose for General Purposes

3-E-39. This is a high grade hose and a better quality than used for lawn and sprinkling purposes. It is made to stand hard usage. We furnish it in lengths of 5, 10, 15, 20, 25, 30, 35, 40, 45 and 50 feet. Prices do not include couplings.

Inside Diameter, in., 1, 4-Ply.....	33c
Inside Diameter, in., 1 $\frac{1}{4}$, 4-Ply.....	40c
Inside Diameter, in., 1 $\frac{1}{2}$, 4-Ply.....	50c

Two Inch Tank Suction Hose



3-E-46. This is the regular standard Thresherman's Suction Hose, with steel wire inserted in walls to prevent collapsing. Has large rubber ends and will fit over 2-inch tank pump connection. Sold in lengths of 10, 15, 20 and 25 feet only. Size, inside diameter, 2 inches. Price, per foot..... **47c**

Hard Rubber Suction Hose



3-E-43. Hard Rubber Suction Hose, smooth bore, extra heavy walls which will prevent collapsing when in use. Sold in lengths in multiples of 5 feet to 50 feet inclusive. Prices do not include couplings or clamps.

Size, inches.....	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Price, per foot.....	21c	25c	30c	51c

Odd Lot New Hose!

Lot No. 3-E-50

1 10' length—1 $\frac{3}{8}$ 3 ply Water Hose.....	\$1.20
1 20' length—1 $\frac{3}{8}$ 3 ply Water Hose.....	2.40
5 10' lengths—1 $\frac{3}{8}$ 4 ply Water Hose, each.....	1.50
1 15' length—1 $\frac{3}{8}$ 4 ply Water Hose.....	2.25
1 7' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	1.33
1 12' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	2.23
1 16' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	2.28
1 17' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	3.04
1 19' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	3.23
1 19' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	3.51
2 20' lengths—1 $\frac{3}{8}$ 5 ply Water Hose, each.....	3.80
1 22' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	4.18
1 24' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	4.56
1 10' length—1 $\frac{3}{8}$ 6 ply Water Hose.....	2.00
3 15' lengths—1 $\frac{3}{8}$ 6 ply Water Hose, each.....	3.00
2 10' lengths—1 $\frac{3}{8}$ 6 ply Water Hose, each.....	1.90
1 11' length—1 $\frac{3}{8}$ 6 ply Water Hose.....	2.09
1 13' length—1 $\frac{3}{8}$ 6 ply Water Hose.....	2.47
1 15' length—1 $\frac{3}{8}$ 6 ply Water Hose.....	2.85
2 20' lengths—1 $\frac{3}{8}$ 3 ply Water Hose, each.....	1.80
1 20' length—1 $\frac{3}{8}$ 3 ply Water Hose.....	2.16
2 10' lengths—1 $\frac{3}{8}$ 4 ply Water Hose, each.....	2.30
1 13' length—1 $\frac{3}{8}$ 4 ply Water Hose.....	2.99
1 14' length—1 $\frac{3}{8}$ 4 ply Water Hose.....	3.22
2 15' lengths—1 $\frac{3}{8}$ 4 ply Water Hose, each.....	3.22
1 8' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	2.90
1 10' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	3.48
1 12' length—1 $\frac{3}{8}$ 5 ply Water Hose.....	3.48
1 3' length—2 $\frac{3}{4}$ 4 ply Water Hose.....	.90
1 10' length—2 $\frac{3}{4}$ 4 ply Water Hose.....	3.00
1 10' length—2 $\frac{3}{4}$ 4 ply Water Hose.....	3.40
1 50' length—2 $\frac{3}{4}$ 4 ply Water Hose.....	17.00
1 13' length— $\frac{3}{4}$ 4 ply Steam Hose.....	1.82
1 10' length— $\frac{3}{4}$ 4 ply Steam Hose.....	1.80
1 10' length— $\frac{3}{4}$ 5 ply Steam Hose.....	2.20
3 15' lengths— $\frac{3}{4}$ 5 ply Steam Hose, each.....	3.30
1 14' length—1 $\frac{1}{2}$ 5 ply Steam Hose.....	3.78
1 10' length—1 $\frac{1}{2}$ 6 ply Steam Hose.....	3.20
1 10' length—1 $\frac{1}{2}$ 4 ply Steam Hose.....	2.60
2 20' lengths—1 $\frac{1}{2}$ 4 ply Steam Hose, each.....	5.20
1 35' length—1 $\frac{1}{2}$ 4 ply Steam Hose.....	9.10
1 50' length—1 $\frac{1}{2}$ 4 ply Steam Hose.....	13.00
1 10' length—1 $\frac{1}{2}$ 5 ply Steam Hose.....	3.30
1 9' length—1 $\frac{1}{2}$ 6 ply Steam Hose.....	3.51
2 10' lengths—1 $\frac{1}{2}$ 6 ply Steam Hose, each.....	3.90
1 15' length—1 $\frac{1}{2}$ 6 ply Steam Hose.....	5.85
1 9' length—1 $\frac{1}{2}$ 5 ply Steam Hose.....	3.51
1 9' length—1 $\frac{1}{2}$ 6 ply Steam Hose.....	4.23
1 10' length—1 $\frac{1}{2}$ 6 ply Steam Hose.....	4.70
1 10' length—1 $\frac{1}{2}$ 6 ply Steam Hose.....	7.52
5 50' lengths— $\frac{3}{4}$ Suction Hose, each.....	6.00
2 10' lengths—1 Suction Hose, each.....	1.50
1 15' length—1 Suction Hose.....	2.25
2 10' lengths—1 $\frac{1}{4}$ Suction Hose, each.....	1.80
1 25' length—1 $\frac{1}{4}$ Suction Hose.....	4.50
1 9' length—1 $\frac{1}{4}$ Suction Hose.....	2.07
10 10' lengths—1 $\frac{1}{4}$ Suction Hose, each.....	2.30
1 15' length—1 $\frac{1}{4}$ Suction Hose.....	3.45
2 20' lengths—1 $\frac{1}{4}$ Suction Hose, each.....	4.60
1 20' length— $\frac{3}{4}$ 4 ply Air Hose.....	2.80
2 10' lengths—1 $\frac{1}{4}$ 5 ply Air Hose, each.....	1.80
11 10' lengths— $\frac{3}{4}$ Gasoline Hose.....	2.00
9 12' lengths— $\frac{3}{4}$ Gasoline Hose, each.....	2.40
2 10' lengths—1 Gasoline Hose, each.....	2.50

Cotton Rubber Lined Fire Hose



3-E-42. For fire protection purposes. This is a single jacketed cotton rubber lined mill hose, tested to 250 pounds and furnished complete with automatic brass couplings which require no clamps. Every length fully guaranteed. In ordering, be sure and state whether the couplings are to fit standard iron pipe or hose thread.

Inside Diameter Inches	Price Per Length 25 Feet	Price Per Length 50 Feet
1 $\frac{1}{4}$	\$ 7.60	\$13.25
1 $\frac{1}{2}$	8.55	15.35
2	11.50	20.30
2 $\frac{1}{2}$	13.90	24.75

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It's Easy to Order from This Book

EVERY illustration and statement in this catalog has been made with but one object in view—to make it easy for you to order your needs with a feeling of safety. We have endeavored to confine our descriptions to plain language, easily read and understood by any one. An order blank is enclosed with this book. Tear it out. Write your name, postoffice and shipping address plainly and list the numbers of all articles, being careful to give size, finishes, colors, etc. Then mail your order to us in the envelope enclosed and we will do the rest. If you have never dealt with us before, please read over the following points of information. Follow these buying points and you will aid us in giving you best service.

Please Read How We Handle Your Order

Our mail comes to us just the same as yours reaches you. At regular hours each day the mail carrier from the Chicago Postoffice delivers our mail within our steel enclosed mail receiving department. Here it is received by our confidential bonded mail receiving clerks. Your letters and orders are carefully opened and any remittance enclosed is recorded and credited under your name. It is here your order is given its official number and a post card acknowledgment sent to you.

After mailing your order, please wait a reasonable length of time for this postal acknowledgment.

Unless prompt shipment can be made, you will be notified of the progress of your order and fully informed of any unforeseen delay.

Every article in this book (with the exception of a few made-to-order items) is carried in stock ready for immediate shipment from our headquarters warehouses here in Chicago or will be promptly shipped from warehouses at points of purchase as stated in the descriptions.

Make use of the index. It saves you time and tells you where the item you are looking for may be found in all sections of this book.

An order blank and return envelope are enclosed. Use them for your order and ask for more. All orders from the same home should be sent to us always under the same name, preferably the name of the head of the family.

Club together with your neighbors. Have them include their orders with yours and get the benefit of large shipments at all times.

Write us in any language. We maintain a foreign department for your convenience.

Wherever possible include cash in full with your order in conformity with our regular terms. Postoffice money orders, express money orders, bank drafts, cash by registered mail, postage stamps or your personal check are acceptable. Where possible avoid sending cash by mail.

If you are forced to enclose cash be sure to register your letter. We are not responsible for cash lost in the mails.

Avoid C. O. D. shipments wherever possible. They are the constant cause of trouble and inconvenience to our customers and offer no possible advantages.

Our system of handling remittances and orders which come to us from our customers is designed to prevent irregularities. Occasionally mistakes will happen and we expect you to call them to our attention.

If you ever have occasion to return anything to us, please pack or wrap it carefully and place your letter of instructions in the package.

Kindly notify us at once if you change your address. This will enable us to send your mail, orders and catalogs to the correct address.

When in Chicago remember our "latch string" is always out to you. You will find our Plant is as interesting as an expedition.

Parcel Post Shipments

Postage in stamps or a sufficient amount to cover delivery must accompany your order.

Merchandise shipped by mail takes the Parcel Post rates as outlined in this table.

Packages up to 4 ozs. are carried for 1c an ounce regardless of distance. If over 4 ozs. they are charged for by the pound.

Size Limit If the combined length and girth measure of a package does not exceed 7 ft., it can be shipped by Parcel Post.

Insurance protection on Parcel Post shipments can be had as follows:

3c insures a package up to \$5.00.

5c insures a package up to \$25.00.

10c insures a package up to \$50.00.

25c insures a package up to \$100.00.

Weight Limit A package weighing up to 70 lbs. can be mailed in the first and second zones only. In other zones a package must not weigh over 50 lbs.

Freight Shipments

The Freight Tables Below show the freight rates per 100 lbs. on shipments from Chicago to properly distributed cities in each state. The railroad companies use these cities as a basis for figuring freight rates to the town in the immediate vicinity of the cities given. By referring to the classification and the freight tables below, you can come within a few cents of the correct freight rate for your town from Chicago on less car loads. Carload rates furnished on application.

How to Figure Freight Charge First look through the classification table directly below and find what class covers the merchandise you wish shipped; then refer to the table of freight rates to the nearest town to your shipping point. Follow the line of that town to the column showing the classification of the goods you wish shipped, and this will give you the freight rate per 100 lbs. within a few cents of the actual charge.

Classification of Material and Merchandise When Shipped by Freight

The railroad companies discriminate in the goods to be shipped and classify them as shown in the tables below in four different classifications. This is how they base the freight rates on all merchandise to every section of the country.

In order that you can figure the correct freight rate to your station, we have classified merchandise which will cover shipments of almost any nature. If you are unable to find the particular article you wish shipped, find that which nearest resembles it.

Class	Class	Class	Class	Class	Class
1 Adding Machines. 147	1 Belting. 2	1 Columns, Iron or Steel. 2	1 Fittings, Lavatory. 2	2 Lath, Wooden. 2	2 Roofing, Iron. 2
1 Angle Bars and Plates. 1	1 Blowers, Air. 2	1 Concrete Block Machines. 1	1 Fittings, Pipe. 1	4 Lathing, Metal. 4	4 Range Boilers. 4
1 Anvils. 1	1 Boilers, Heating, Iron or Steel. 2	1 Conductor Pipe. 1	1 Flooring, Tile. 1	2 Lavatories, Iron or Steel. 2	2 Ranges and Stoves, Coal. 2
1 Anvil Vise and Drill Comb. 3	1 Buckets, Building, Conveying, Dredging and Dump Hoisting. 4	1 Console Mirrors. 2	1 Flues, Boiler. 1	4 Lavatories, Iron Basins or Bowls. 4	4 Refrigerators. 4
1 Asbestos Felt Paper. 4	1 Buffets and China Closets or Sideboards Combined. 147	1 Corn Shellers, hand. 1	2 Forges, Portable. 2	2 Linoleum. 2	2 Roofing, Prepared. 2
1 Asphalt Roofing. 4	1 Cabinets, China. 147	1 Corn Shellers, Power. 2	1 Furnace, Casting. 1	1 Lumber LCL. 1	1 Rugs. 1
1 Asphalt Shingles. 4	1 Cabinets, Kitchen. 147	2 Couches, Wooden. 2	1 Furnace, Heating. 1	1 Machinery. 1	1 Safes, Kitchen. 147
1 Asphalt Paint in Wood. 3	1 Cabinets, Medicine, Toilet, Bathroom or Lavatory. 147	1 Couches, Bamboo, Cane, Fibre & Grass Rattan. 1	1 Gates, Wood, Iron or Wire. 1	2 Mantels, Wooden. 2	2 Safes, Iron. 2
1 Barb Wire. 3	1 Camp Chairs. 147	1 Reed or Willow. 147	1 Gates, Wood and Iron. 1	1 Paint in Kits or Pails. 1	1 Sewing Machines. 1
1 Barn Door Hanger Rails. 3	1 Carpets. 147	1 Cream Separators. 1	1 Comb. 1	3 Paper, Building. 3	4 Shingles, Wooden. 4
1 Barrows, Wheel. 147	2 Casings, Boiler. 2	1 Drifts, Gravel. 1	2 Glass Comm. Window Desks. 2	3 Paper, Roofing. 3	3 Sash, Glazed. 3
1 Basins, Lavatory Iron. 1	1 Chains, Stove or Range. 147	1 Doors, Wood, Glazed. 1	1 Glass, Plate, not bent, 120 in. or under. 1	4 Piling, Wooden. 4	4 Stoves (See Ranges). 4
1 Bath Tubs, Iron & Steel. 1	1 Chains, Wall. 147	1 Doors, Vault. 1	2 Exceeding 120 in. but not over 15 ft. 2	4 Pipe Fittings. 4	4 Wallboard. 4
1 Bath Tub Fittings. 1	1 Camp Chairs. 147	1 Drain Boards and Sinks. 1	1 Hardware. 1	1 Plasterboard. 1	4 Wire, Barbed. 4
1 Bathroom Cabinets. 1	2 Carriages, Bolter. 2	1 Backs, Combinations. 1	3 Hay Presses. 3	4 Wire Gates. 4	4 Wire Closets Bowls, Iron. 4
1 Beams, Columns, Guides, Trusses. 1	1 Chains, Revolving. 147	1 Drain Boards, Iron or Steel. 1	3 Hay Presses and Engines. 3	4 Wire Fencing. 4	4 Wire Fencing. 4
1 Beams, Iron or Steel. 1	1 Chairs & Ladders, Combined. 147	1 Steel. 1	1 Hacks, Portable. 1	1 Wire, Galvanized. 1	1 Wire, Galvanized. 1
1 Beds, Folding Iron. 2	1 Channels, Iron or Steel. 147	1 Fence Gates, Iron or steel. 1	1 Huskers, Corn, Power. 1	1 Wire, Plain. 1	1 Wire, Plain. 1
1 Beds, Three Piece, Bedstead Ends and Rails. 2	1 Columns, Wooden. 1	1 Fence Post, Iron or steel. 1	1 Incubators. 1	1 Wire, Plain. 1	1 Wire, Plain. 1
1 Bedstead Rails and Wire Springs. 3		1 Fittings, Bath Tub. 3	3 Iron Angles, Band, Structural. 3	1 Wire, Plain. 1	1 Wire, Plain. 1
1 Bedstead Slat, Wooden. 3			2 Jack Screws. 2	1 Wire, Plain. 1	1 Wire, Plain. 1
1 Bells. 1				1 Wire, Plain. 1	1 Wire, Plain. 1

**D1 Means Double 1st class.
***3T1 Means 3 times 1st class.

The Freight Rates Below Are for 100 Lbs. to Towns Covering Each State

1st Class Per 100lbs.	2nd Class Per 100lbs.	3rd Class Per 100lbs.	4th Class Per 100lbs.	1st Class Per 100lbs.	2nd Class Per 100lbs.	3rd Class Per 100lbs.	4th Class Per 100lbs.	1st Class Per 100lbs.	2nd Class Per 100lbs.	3rd Class Per 100lbs.	4th Class Per 100lbs.
ALABAMA—				KENTUCKY—				N. DAKOTA—			
Birmingham. \$1.91	\$1.61	\$1.34	\$1.08	Frankfort. \$1.12	\$0.96	\$0.79	\$0.61	Bismarck. \$2.44	\$2.06	\$1.63	\$1.18
Brewton. 2.29	1.97	1.69	1.35	Hopkinsville. 1.21	.95	.83	.70	Fargo. 1.78	1.50	1.18	.82
Mobile. 2.05	1.74	1.43	1.24	Louisville. 1.84	.71	.57	.42	Grand Forks.89	1.59	1.27	.90
Montgomery. 2.19	1.91	1.64	1.28	Morehead. 1.53	1.28	1.00	.73	Minot. 2.67	2.27	1.86	1.34
Phoenix. 4.36	3.77	3.14	2.63	LOUISIANA—				Williston. 3.04	2.53	2.07	1.52
Tucson. 4.36	3.77	3.14	2.63	Lake Charles. 2.38	2.01	1.63	1.41	OHIO—			
ARIZONA—				New Orleans. 2.04	1.74	1.43	1.24	Cincinnati.81	.69	.54	.41
Arkansas City. 2.04	1.72	1.35	1.20	Shreveport. 2.32	1.96	1.61	1.37	Columbus.84	.71	.57	.43
Fort Smith. 2.04	1.72	1.35	1.20	MAINE—				Toledo.76	.65	.52	.39
Hot Springs. 2.00	1.69	1.36	1.12	Bangor. 1.49	1.31	.99	.70	OKLAHOMA—			
Little Rock. 1.91	1.60	1.31	1.17	MARYLAND—				Oklahoma City. 2.28	1.96	1.63	1.33
Texarkana. 2.18	1.83	1.49	1.28	Baltimore. 1.40	1.23	.92	.64	OREGON—			
CALIFORNIA—				MASS—				Portland. 5.11	4.43	3.68	3.12
Bakersfield. 5.10	4.43	3.60	3.12	Boston. 1.49	1.31	.99	.70	PENNSYLVANIA—			
Los Angeles. 5.10	4.43	3.60	3.12	MICHIGAN—				Harrisburg. 1.40	1.23	.92	.64
San Francisco. 5.10	4.43	3.60	3.12	Bessemer.99	.84	.68	.43	Philadelphia. 1.41	1.24	.93	.65
COLORADO—				Detroit.79	.68	.53	.40	Pittsburgh.98	.84	.66	.50
Denver. 2.74	2.21	1.68	1.30	Grand Rapids.75	.63	.51	.38	RHODE ISLAND—			
Durango. 4.70	2.56	3.15	2.36	Traverse City.98	.82	.66	.49	Providence. 1.49	1.31	.99	.70
Grand Junction. 3.98	2.14	1.63	1.30	MINNESOTA—				S. CAROLINA—			
Julesburg. 3.98	3.36	2.76	2.11	Atkins. 1.42	1.20	.96	.64	Charleston. 2.15	1.82	1.61	1.40
Leadville. 3.98	3.36	2.76	2.11	Brookston. 1.12	1.50	.88	.43	Knoxville. 2.30	2.11	1.80	1.42
CONNECTICUT—				Brooklyn.99	.84	.68	.43	Sumter. 2.32	2.11	1.80	1.42
Hartford. 1.49	1.31	.99	.70	Grand Rapids. 1.51	1.25	1.00	.68	SOUTH DAKOTA—			
DELAWARE—				Minneapolis.92	.77	.61	.39	Aberdeen. 1.74	1.45	1.03	.77
Dover. 1.42	1.26	.96	.68	Winona.77	.64	.51	.36	Bellevue. 1.27	1.03	.72	.52
DISTRICT OF COLUMBIA—				MISSISSIPPI—				Sioux Falls. 1.27	1.03	.72	.52
Washington. 1.40	1.23	.92	.64	Hattiesburg. 1.95	1.64	1.41	1.17	Watertown. 1.46	1.25	.97	.70
FLORIDA—				Jackson. 1.96	1.67	1.38	1.18	TENNESSEE—			
Jacksonville. 2.15	1.82	1.60	1.40	Natchez. 1.66	1.35	2.14	.88	Jackson. 1.59	1.32	1.07	.88
Miami. 3.51	2.14	2.71	2.38	MISSOURI—				Knoxville. 1.88	1.60	1.35	1.07
Pensacola. 2.05	1.74	1.43	1.24	Kansas City. 1.22	.99	.70	.49	Memphis. 1.51	1.28	1.06	.90
Tallahassee. 2.88	2.43	2.14	1.75	St. Louis. 1.24	1.10	.77	.57	Nashville. 1.48	1.23	.99	.80
Tampa. 2.86	2.43	2.07	1.82	MONTANA—				TEXAS—			
GEORGIA—				Billings. 3.76	3.14	2.54	2.05	El Paso. 3.35	2.83	2.32	1.98
Atlanta. 2.32	1.99	1.69	1.37	Clagrow. 3.39	2.38	2.33	1.73	Houston. 2.54	2.15	1.77	1.61
Macon. 2.32	1.99	1.69	1.37	Havre. 3.76	3.22	2.61	2.05	UTAH—			
Savannah. 2.15	1.78	1.60	1.40	Helena. 3.98	3.40	2.78	2.24	Marysville. 4.68	4.03	3.43	2.86
Waycross. 2.71	2.32	2.05	1.70	Kallispell. 4.13	3.53	2.90	2.36	Salt Lake City. 3.98	3.35	2.78	2.24
IDaho—				Miles City. 3.39	2.88	2.33	1.73	VERMONT—			
Boise. 4.22	3.62	3.05	2.49	NEBRASKA—				Montpelier. 1.49	1.31	.99	.70
Pocatello. 3.98	3.36	2.78	2.24	Lincoln. 1.30	1.07	.75	.56	VIRGINIA—			
ILLINOIS—				North Platte. 2.38	1.98	1.51	1.20	Marion. 1.61	1.41	1.33	.77
Calo.89	.76	.60	.45	Omaha. 1.22	.99	.70	.49	Richmond. 1.40	1.23	.92	.66
Joliet.42	.25	.28	.21	NEVADA—				Westchester. 1.40	1.23	.92	.66
Rock Island.67	.57	.45	.34	Austin. 5.37	4.75	4.12	3.50	WASHINGTON—			
Springfield.71	.61	.48	.43	Carson City. 4.71	4.12	3.48	2.99	Seattle. 5.11	4.43	3.68	3.12
INDIANA—				N. HAMPSHIRE—				Spokane. 4.36	3.77	3.14	2.63
Evansville.81	.69	.54	.41	Concord. 1.49	1.31	.99	.70	W. VIRGINIA—			
Fort Wayne.64	.54	.43	.33	NEW JERSEY—				Charleston.99	.84	.66	.50
Indianapolis.71	.61	.48	.36	Atlantic City. 1.50	1.33	1.02	.74	Elkins. 1.14	1.00	.76	.56
Richmond.76	.64	.51	.38	Trenton. 1.42	1.29	.95	.67	Wheeling.99	.84	.66	.50
South Bend.53	.45	.39	.27	NEW MEXICO—				WISCONSIN—			
IOWA—				Gallup. 4.36	3.77	3.14	2.63	Ashland.99	.84	.68	.43
Des Moines.92	.73	.55	.42	Santa Fe. 3.31	2.83	2.28	1.91	La Crosse.77	.64	.51	.36
Fort Dodge.99	.79	.60	.45	Silver City. 3.91	3.32	2.74	2.34	Madison.61	.52	.41	.31
Sioux City. 1.22	.99	.70	.49	NEW YORK—				Marquette.66	.55	.45	.35
KANSAS—				Albany. 1.36	1.20	.91	.64	Milwaukee.52	.45	.35	.27
Dodge City. 2.47	2.12	1.65	1.27	Buffalo.98	.84	.66	.50	WYOMING—			
Great Bend. 1.94	1.86	1.45	1.18	New York. 1.42	1.25	.95	.67	Cheyenne. 2.74	2.21	1.68	1.30
Topeka. 1.52	1.25	.90	.66	Syracuse. 1.14	1.00	.76	.53	Green River. 3.84	2.33	2.68	2.15
Wichita. 1.98	1.69	1.32	1.00	N. CAROLINA—				Lander. 4.21	3.50	2.78	2.23
				Raleigh. 1.96	1.70	1.34	.99	Sheridan. 3.76	3.14	2.54	2.05
				Wilmington. 1.96	1.66	1.30	.99				

EXPRESS SHIPMENTS

The Express in the tables below you will find the latest express rates per **Rates Below** 100 lbs. on shipments from Chicago to well distributed cities in each state. You can use these cities to figure charges to your town. Look over the table and find the city nearest to you. If you wish to know the exact express charges on any article in this book to your station, write us, or ask your express agent.

How to Figure Express Charges Refer to the weight of the articles to be shipped given in the description in our catalog; then find the express rate per 100 lbs. to the nearest point to your town given in the express rates below; then note the rate per 100 lbs. in the scale of express charges, and follow the line of the weight of your goods to the column headed by the rate per 100 lbs. to your station. This will give you the correct express charges.

The Express Rates Below Are for 100 Pounds to Towns Covering Each State

From Chicago to	P. Zone	Per 100 Pounds	From Chicago to	P. Zone	Per 100 Pounds	From Chicago to	P. Zone	Per 100 Pounds	From Chicago to	P. Zone	Per 100 Pounds	From Chicago to	P. Zone	Per 100 Pounds
ALABAMA			GEORGIA—Cont.			MASSACHUSETTS			NEW MEXICO			S. DAKOTA—Cont.		
Birmingham	4	\$ 3.53	Savannah	5	\$ 4.64	Boston	5	\$ 3.67	Gallup	6	\$ 8.87	Bellefourche	5	\$ 6.47
Brewton	4	4.16	Waycross	5	4.57	MICHIGAN			Santa Fe	6	8.79	Sioux Falls	4	3.60
Mobile	5	4.30	IDAHO			Bessemer	4	3.11	Silver City	6	9.21	Watertown	4	4.02
Montgomery	5	3.81	Boise	7	10.87	Detroit	3	1.73	NEW YORK			TENNESSEE		
ARIZONA			Pocatello	6	9.70	Grand Rapids	2	1.39	Albany	5	3.39	Jackson	4	2.91
Phoenix	7	11.29	ILLINOIS			Traverse City	3	2.22	Buffalo	4	2.70	Knoxville	4	3.33
Tucson	6	10.12	Calro	4	2.28	MINNESOTA			New York	5	5.33	Memphis	4	3.11
ARKANSAS			Joliet	1	1.03	Atkin	4	3.88	Syracuse	4	2.97	Nashville	4	2.63
Arkansas City	4	3.67	Rock Island	2	1.59	Crookston	4	4.44	N. CAROLINA			TEXAS		
Fort Smith	4	4.22	Springfield	3	1.80	Duluth	3	3.33	Raleigh	5	4.30	El Paso	6	8.45
Hot Springs	4	4.32	INDIANA			Grand Rapids	4	4.02	Wilmington	5	4.64	Fort Worth	5	5.54
Little Rock	4	3.88	Evansville	3	1.73	Minneapolis	4	2.97	NO. DAKOTA			Houston	5	5.88
Texarkana	5	4.57	Fort Wayne	2	1.39	Winona	3	2.56	Bismarck	5	5.27	UTAH		
CALIFORNIA			Indianapolis	2	1.39	MISSISSIPPI			Fargo	4	4.22	Marysville	6	10.32
Bakersfield	7	12.54	Richmond	3	1.73	Jackson	5	3.88	Grand Forks	4	4.71	Salt Lake City	6	9.35
Los Angeles	7	12.64	South Bend	2	1.03	Natchez	5	4.22	Minot	5	5.47	VERMONT		
San Francisco	8	13.09	IOWA			MISSOURI			Williston	5	5.88	Montpelier	5	3.67
COLORADO			Des Moines	3	2.70	Kansas City	4	3.11	OHIO			VIRGINIA		
Denver	5	6.02	Fort Dodge	4	2.91	St. Louis	3	2.14	Cincinnati	3	1.94	Marion	4	3.60
Durango	6	8.38	Sioux City	4	3.60	Springfield	4	3.33	Columbus	3	2.28	Richmond	4	3.81
Grand Junction	6	11.98	KENTUCKY			MONTANA			Toledo	3	1.80	Rocky Mount	4	3.81
Julesburg	5	5.33	Dodge City	5	4.91	Billings	6	7.48	OKLAHOMA			WASHINGTON		
Leadville	5	7.13	Great Bend	5	4.36	Clasgow	6	6.58	Oklahoma City	5	4.99	Seattle	7	12.12
CONNECTICUT			Kansas City	4	3.11	Hayre	6	7.69	Portland	7	12.47	Spokane	7	10.95
Hartford	5	3.74	Topeka	4	3.11	Helena	6	9.07	OREGON			W. VIRGINIA		
DELAWARE			Wichita	4	3.36	Kalspell	6	9.42	Portland	7	12.47	Charleston	4	2.77
D.C. OF COLUM.			KENTUCKY			Miles City	5	6.51	PENNA.			Elkins	4	3.25
Washington	4	3.33	Frankfort	3	2.14	NEBRASKA			Harrisburg	4	3.19	Wheeling	4	2.42
FLORIDA			Hopkinsville	4	2.42	Lincoln	4	3.60	Philadelphia	5	3.39	WISCONSIN		
Jacksonville	4	4.99	Louisville	3	1.94	North Platte	5	4.91	Pittsburgh	4	2.56	Ashland	4	3.33
Miami	6	6.51	Moreread	4	2.42	Omaha	4	3.33	RHODE ISL'D			La Crosse	3	2.08
Pensacola	5	4.50	LOUISIANA			NEVADA			Providence	5	3.74	Madison	2	1.80
Tallahassee	5	4.64	Lake Charles	5	4.99	Carson City	7	11.50	S. CAROLINA			Mantoloking	2	2.63
Tampa	5	5.75	New Orleans	5	4.50	Concord	7	12.20	Charleston	4	4.91	Milwaukee	2	1.45
GEORGIA			Shreveport	5	4.71	NEW HAMPSH.			Greenville	4	4.30	WYOMING		
Atlanta	4	3.81	MAINE			Atlantic City	5	3.53	Sumter	5	4.64	Chevyenne	5	5.96
Macon	5	4.16	MARYLAND			Trenton	5	3.53	SO. DAKOTA			Green River	6	8.24
			Baltimore	4	3.11				Aberdeen	4	4.57	Lander	6	7.62
												Sheridan	5	6.72

The Scale of Express Charges Below Is Based on the 100 Pound Rate

Rate per 100 lbs.	\$1.03	\$1.39	\$1.45	\$1.59	\$1.73	\$1.80	\$1.94	\$2.08	\$2.14	\$2.22	\$2.28	\$2.42	\$2.56	\$2.63	\$2.70
CHARGES ON															
Package of 1 lb.	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.37	.38	.38	.38
Package of 2 lbs.	.37	.37	.38	.38	.38	.38	.38	.38	.38	.39	.39	.39	.39	.39	.39
Package of 5 lbs.	.38	.40	.40	.40	.40	.42	.42	.43	.43	.44	.44	.44	.45	.45	.45
Package of 10 lbs.	.40	.44	.45	.47	.48	.48	.50	.52	.53	.53	.54	.55	.57	.57	.58
Package of 15 lbs.	.44	.50	.53	.53	.55	.57	.58	.60	.60	.62	.64	.66	.68	.69	.69
Package of 20 lbs.	.47	.55	.58	.59	.62	.64	.67	.69	.71	.72	.73	.76	.79	.81	.82
Package of 25 lbs.	.50	.60	.64	.66	.69	.71	.74	.78	.79	.82	.83	.86	.89	.92	.93
Package of 30 lbs.	.53	.66	.69	.72	.76	.78	.82	.86	.88	.89	.93	.97	1.01	1.02	1.06
Package of 35 lbs.	.57	.71	.76	.78	.83	.86	.89	.96	.97	1.00	1.02	1.07	1.12	1.15	1.16
Package of 40 lbs.	.59	.76	.82	.84	.89	.93	.98	1.03	1.07	1.10	1.12	1.17	1.23	1.26	1.29
Package of 45 lbs.	.62	.82	.87	.89	.97	1.00	1.07	1.12	1.15	1.20	1.22	1.27	1.35	1.37	1.40
Rate per 100 lbs.	\$2.77	\$2.91	\$2.97	\$3.11	\$3.19	\$3.25	\$3.33	\$3.39	\$3.53	\$3.60	\$3.67	\$3.74	\$3.81	\$3.88	\$4.02
CHARGES ON															
Package of 1 lb.	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38	.39	.39	.39
Package of 2 lbs.	.39	.40	.40	.40	.40	.40	.40	.42	.42	.42	.42	.42	.43	.43	.43
Package of 5 lbs.	.47	.47	.47	.48	.48	.48	.50	.50	.52	.52	.52	.53	.54	.54	.55
Package of 10 lbs.	.58	.59	.60	.62	.62	.64	.64	.66	.67	.68	.68	.69	.69	.71	.72
Package of 15 lbs.	.71	.72	.73	.76	.78	.78	.79	.81	.82	.83	.84	.86	.87	.89	.90
Package of 20 lbs.	.83	.84	.87	.89	.92	.93	.95	.96	.98	1.00	1.01	1.02	1.03	1.06	1.08
Package of 25 lbs.	.96	.97	1.00	1.03	1.06	1.07	1.10	1.11	1.13	1.16	1.17	1.20	1.21	1.23	1.26
Package of 30 lbs.	1.07	1.10	1.13	1.17	1.20	1.22	1.23	1.26	1.30	1.31	1.35	1.36	1.39	1.40	1.44
Package of 35 lbs.	1.20	1.22	1.26	1.31	1.35	1.36	1.39	1.41	1.45	1.49	1.51	1.54	1.55	1.58	1.64
Package of 40 lbs.	1.31	1.35	1.40	1.45	1.49	1.51	1.54	1.56	1.63	1.65	1.68	1.70	1.74	1.76	1.81
Package of 45 lbs.	1.44	1.47	1.52	1.59	1.63	1.65	1.69	1.71	1.78	1.81	1.84	1.86	1.90	1.94	1.99
Rate per 100 lbs.	\$4.57	\$4.64	\$4.71	\$4.91	\$4.99	\$5.27	\$5.33	\$5.47	\$5.54	\$5.75	\$5.88	\$5.96	\$6.02	\$6.51	\$6.58
CHARGES ON															
Package of 1 lb.	.39	.39	.39	.39	.39	.40	.40	.40	.40	.40	.40	.40	.42	.42	.42
Package of 2 lbs.	.43	.43	.43	.44	.44	.44	.44	.44	.45	.45	.45	.47	.47	.47	.48
Package of 5 lbs.	.55	.55	.57	.57	.58	.59	.59	.60	.60	.62	.62	.62	.66	.66	.67
Package of 10 lbs.	.76	.78	.78	.81	.81	.83	.84	.86	.88	.88	.89	.92	.96	.97	.98
Package of 15 lbs.	.98	.98	1.00	1.02	1.03	1.08	1.10	1.11	1.12	1.15	1.16	1.20	1.20	1.27	1.30
Package of 20 lbs.	1.20	1.21	1.22	1.26	1.27	1.34	1.35	1.37	1.39	1.42	1.44	1.47	1.49	1.58	1.59
Package of 25 lbs.	1.40	1.41	1.44	1.49	1.51	1.58	1.59	1.63	1.65	1.69	1.71	1.75	1.76	1.89	1.90
Package of 30 lbs.	1.61	1.64	1.65	1.71	1.73	1.81	1.84	1.89	1.90	1.97	1.98	2.03	2.05	2.19	2.22
Package of 35 lbs.	1.83	1.86	1.86	1.94	1.97	2.07	2.09	2.13	2.17	2.23	2.26	2.32	2.33	2.51	2.52
Package of 40 lbs.	2.04	2.07	2.09	2.18	2.21	2.32	2.34	2.39	2.42	2.53	2.56	2.60	2.62	2.81	2.84
Package of 45 lbs.	2.24	2.27	2.32	2.39	2.44	2.56	2.60	2.65	2.68	2.77	2.84	2.87	2.90	3.11	3.15
Rate per 100 lbs.	\$8.24	\$8.38	\$8.45	\$8.87	\$9.21	\$9.35	\$9.42	\$9.70	\$10.12	\$10.32	\$10.87	\$10.95	\$11.29	\$11.50	\$11.98
CHARGES ON															
Package of 1 lb.	.43	.43	.43	.43	.43	.43	.44	.44	.44	.45	.45	.45	.45	.45	.47
Package of 2 lbs.	.50	.52	.52	.53	.53	.53	.54	.54	.55	.55	.57	.57	.58	.58	.59
Package of 5 lbs.	.73	.74	.74	.78	.78	.79	.81	.82	.83	.84	.87	.88	.89	.93	.95
Package of 10 lbs.	1.13	1.15	1.15	1.20	1.22	1.25	1.25	1.27	1.31	1.35	1.40	1.40	1.44	1.45	1.52
Package of 15 lbs.	1.52	1.55	1.56	1.63	1.65	1.68	1.70	1.75	1.81	1.84	1.93	1.94	1.98	2.03	2.09
Package of 20 lbs.	1.93	1.95	1.97	2.05	2.09	2.12	2.14	2.22	2.31	2.34	2.46	2.47	2.53	2.58	2.67
Package of 25 lbs.	2.32	2.36	2.37	2.48	2.52	2.60	2.62	2.68	2.78	2.84	2.97	3.00	3.07	3.14	3.25
Package of 30 lbs.	2.72	2.76	2.77	2.90	2.96	3.01	3.05	3.15	3.28	3.34	3.50	3.52	3.63	3.69	3.84
Package of 35 lbs.	3.10	3.16	3.19	3.33	3.39	3.45	3.49	3.62	3.77	3.84	4.03	4.06	4.17	4.26	4.46
Package of 40 lbs.	3.50	3.57	3.59	3.75	3.84	3.89	3.94	4.08	4.26	4.33	4.56	4.59	4.73	4.81	5.00
Package of 45 lbs.	3.89	3.97	3.99	4.18	4.27	4.33	4.40	4.56	4.74	4.84	5.09	5.12	5.27	5.37	5.58

Parcel Post Shipments

The Extent and Advantages of the Parcel Post System

PARCEL POST service offers a convenient, quick and efficient means of transporting mailable parcels to every postoffice in the United States, or its possessions. This service reaches more places than any other transportation agency. Consider the comparative speed of Parcel Post shipments and without disregard for the big economy in freight shipments, the Postoffice offers a most economical delivery service. Reference to the table below shows the variation of charges according to the zone in which your postoffice is located. Parcel Post packages are handled with the same accuracy as any other mail matter. If you live in the city where your mail is delivered to your door, your Parcel Post shipments will come to your door. The rural mail carrier will deliver them to your mail box. If there is no mail carrier in your town, they are delivered to your nearest postoffice.

Charges for Packages Shipped by Parcel Post

The Preceding Page Will Help You Locate Your Zone from Chicago

WEIGHT IN POUNDS	LOCAL	ZONES							
		First, up to 50 miles	Second, 50 to 150 miles	Third, 150 to 300 miles	Fourth, 300 to 600 miles	Fifth, 600 to 1,000 miles	Sixth, 1,000 to 1,400 miles	Seventh, 1,400 to 1,800 miles	Eighth, over 1,800 miles
1.....	\$0.05	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
2.....	.06	.06	.06	.08	.11	.14	.17	.21	.24
3.....	.06	.07	.07	.10	.15	.20	.25	.31	.36
4.....	.07	.08	.08	.12	.19	.26	.33	.41	.48
5.....	.07	.09	.09	.14	.23	.32	.41	.51	.60
6.....	.08	.10	.10	.16	.27	.38	.49	.61	.72
7.....	.08	.11	.11	.18	.31	.44	.57	.71	.84
8.....	.09	.12	.12	.20	.35	.50	.65	.81	.96
9.....	.09	.13	.13	.22	.39	.56	.73	.91	1.08
10.....	.10	.14	.14	.24	.43	.62	.81	1.01	1.20
11.....	.10	.15	.15	.26	.47	.68	.89	1.11	1.32
12.....	.11	.16	.16	.28	.51	.74	.97	1.21	1.44
13.....	.11	.17	.17	.30	.55	.80	1.05	1.31	1.56
14.....	.12	.18	.18	.32	.59	.86	1.13	1.41	1.68
15.....	.12	.19	.19	.34	.63	.92	1.21	1.51	1.80
16.....	.13	.20	.20	.36	.67	.98	1.29	1.61	1.92
17.....	.13	.21	.21	.38	.71	1.04	1.37	1.71	2.04
18.....	.14	.22	.22	.40	.75	1.10	1.45	1.81	2.16
19.....	.14	.23	.23	.42	.79	1.16	1.53	1.91	2.28
20.....	.15	.24	.24	.44	.83	1.22	1.61	2.01	2.40
21.....	.15	.25	.25	.46	.87	1.28	1.69	2.11	2.52
22.....	.16	.26	.26	.48	.91	1.34	1.77	2.21	2.64
23.....	.16	.27	.27	.50	.95	1.40	1.85	2.31	2.76
24.....	.17	.28	.28	.52	.99	1.46	1.93	2.41	2.88
25.....	.17	.29	.29	.54	1.03	1.52	2.01	2.51	3.00
26.....	.18	.30	.30	.56	1.07	1.58	2.09	2.61	3.12
27.....	.18	.31	.31	.58	1.11	1.64	2.17	2.71	3.24
28.....	.19	.32	.32	.60	1.15	1.70	2.25	2.81	3.36
29.....	.19	.33	.33	.62	1.19	1.76	2.33	2.91	3.48
30.....	.20	.34	.34	.64	1.23	1.82	2.41	3.01	3.60
31.....	.20	.35	.35	.66	1.27	1.88	2.49	3.11	3.72
32.....	.21	.36	.36	.68	1.31	1.94	2.57	3.21	3.84
33.....	.21	.37	.37	.70	1.35	2.00	2.65	3.31	3.96
34.....	.22	.38	.38	.72	1.39	2.06	2.73	3.41	4.08
35.....	.22	.39	.39	.74	1.43	2.12	2.81	3.51	4.20
36.....	.23	.40	.40	.76	1.47	2.18	2.89	3.61	4.32
37.....	.23	.41	.41	.78	1.51	2.24	2.97	3.71	4.44
38.....	.24	.42	.42	.80	1.55	2.30	3.05	3.81	4.56
39.....	.24	.43	.43	.82	1.59	2.36	3.13	3.91	4.68
40.....	.25	.44	.44	.84	1.63	2.42	3.21	4.01	4.80
41.....	.25	.45	.45	.86	1.67	2.48	3.29	4.11	4.92
42.....	.26	.46	.46	.88	1.71	2.54	3.37	4.21	5.04
43.....	.26	.47	.47	.90	1.75	2.60	3.45	4.31	5.16
44.....	.27	.48	.48	.92	1.79	2.66	3.53	4.41	5.28
45.....	.27	.49	.49	.94	1.83	2.72	3.61	4.51	5.40
46.....	.28	.50	.50	.96	1.87	2.78	3.69	4.61	5.52
47.....	.28	.51	.51	.98	1.91	2.84	3.77	4.71	5.64
48.....	.29	.52	.52	1.00	1.95	2.90	3.85	4.81	5.76
49.....	.29	.53	.53	1.02	1.99	2.96	3.93	4.91	5.88
50.....	.30	.54	.54	1.04	2.03	3.02	4.01	5.01	6.00
51.....	.30	.55	.55	1.06					
52.....	.31	.56	.56	1.08					
53.....	.31	.57	.57	1.10					
54.....	.32	.58	.58	1.12					
55.....	.32	.59	.59	1.14					
56.....	.33	.60	.60	1.16					
57.....	.33	.61	.61	1.18					
58.....	.34	.62	.62	1.20					
59.....	.34	.63	.63	1.22					
60.....	.35	.64	.64	1.24					
61.....	.35	.65	.65	1.26					
62.....	.36	.66	.66	1.28					
63.....	.36	.67	.67	1.30					
64.....	.37	.68	.68	1.32					
65.....	.37	.69	.69	1.34					
66.....	.38	.70	.70	1.36					
67.....	.38	.71	.71	1.38					
68.....	.39	.72	.72	1.40					
69.....	.39	.73	.73	1.42					
70.....	.40	.74	.74	1.44					

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Excavation	100
Footings	150
Foundation	150
Chimney	150
Plaster	150
Lathing	150
Carpenter	150
Painter	150
Plumber	150